

Commercial FERTILIZERS

Report for 1964

Part II: List of Registrants,
Tonnages Sold, and Analyses

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Chief Chemist

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REPORT ON INSPECTION AND ANALYSIS OF COMMERCIAL FERTILIZERS

1964

Part II: List of Registrants, Tonnages Sold, and Analyses

H. J. Fisher, Chief Chemist¹

INTRODUCTION

During the past year the form of these annual reports was reviewed by the Station biometrician Dr. C.I. Bliss in consultation with members of our soils department to see if some different method of presentation of the results of analysis of official fertilizer samples would not make these data more readily useful to the farmers and home gardeners of Connecticut. As a result of this study, the 1964 report is being issued in two parts. Part I, which was published as Circular 226, consisted of a table designed to show to what extent the products of each manufacturer gave full value when allowance was made for the fact that an excess over guaranty of one ingredient could offset a deficiency in another. Part II (the present bulletin) contains a complete list of registered brands, the tonnage figures, and the actual analyses of all official samples taken during the period July 1, 1963 - June 30, 1964. The analyses of all mixed fertilizer samples (whether from large or small packages) are reported in a single table. These samples are grouped together by grades under each ratio, instead of being listed alphabetically under the respective manufacturers as was the previous practice; the breakdown into the various forms of nitrogen has also been simplified.

A special table showing the percentages of water-soluble phosphoric acid in those grades of fertilizers used in potato-growing is included at the request of Dr. Arthur Hawkins of the University of Connecticut. His field tests appear to show a more or less direct relationship between potato yields and the proportions of the total phosphorus that are in water-soluble form.

Comments on this new method of reporting are solicited.

CONNECTICUT LAW AND REGULATIONS REGARDING COMMERCIAL FERTILIZERS

The term "commercial fertilizers", as used in the Connecticut fertilizer statute, includes "any and every substance imported, manufactured, prepared or sold for fertilizing or manuring or soil amendment purposes, except barnyard manure and stable manure which have not been artificially treated or manipulated, marl and lime." An amendment of the law in 1949 permitted fertilizers to be labelled with guaranties of elements other than nitrogen, phosphorus and potassium, but did not change the requirement that mixed fertilizers must contain at least 0.82 per cent of nitrogen, and 1 per cent of either phosphoric acid or potash, for guaranties of these elements to be made. Phosphorus must be declared as available phosphoric acid (except in the case of bone, tankage and other

¹ Analyses were made by Messrs. Richard A. Botsford, Sherman Squires, Werner Mueller, Charles Hahn and Miss Helen Kocaba; inspection and sampling by Mr. R. Richard Nichols; compilations by Mrs. Gerald Fishbone.

natural organic materials, where total phosphoric acid may be guaranteed instead), and potassium as water-soluble potash; all other elements must be guaranteed in terms of percentages of the elements, not as oxides or salts. A registration fee of \$10.00, payable annually, is charged for each element guaranteed in each brand of fertilizer; there is also a six cent tonnage tax payable semi-annually.

While manufacturers usually register their own fertilizers, if a retailer sells a fertilizer manufactured by an out-of-state firm, and that firm refuses to register, under the law the retailer is responsible for registration fees and tonnage taxes. The retailer, therefore, should assure himself that the requirements of the law have been met by the manufacturers of the brands which he handles, or himself be prepared to meet all these requirements.

The law exempts from registration, and from other requirements, only: (1) fertilizers passing through the State in transit; (2) fertilizers and fertilizer materials shipped to regular fertilizer factories to be used for manufacturing purposes; and (3) fertilizers and fertilizer chemicals sold to The Connecticut Agricultural Experiment Station for experimental purposes.

Cottonseed, linseed, peanut and soybean oil meals, when sold or used for fertilizer purposes must be registered as fertilizers and the specified fees paid thereon. For such products the registration fee is \$10.00 per brand. This fee and the tonnage tax are entirely apart from the registration fee required by the feeding stuffs law for vegetable meals used as feeds (there is no tonnage tax on feeds).

Because manufacturers or jobbers do not know how much, if any, of their vegetable meal tonnage is sold or used as fertilizers, local dealers and purchasers report their sales or purchases to this Station. This information is not for publication but is used to inform manufacturers of the total sales of their meal as fertilizer in this State. It is expected that the fees provided for by statute will be paid by the manufacturer or other party responsible for the brands.

OFFICIAL DEFINITIONS OF FERTILIZER TERMS AND MATERIALS

It is expected that fertilizers sold in this state will comply with the regulations and standards of the Association of American Fertilizer Control Officials. A copy of the "Official Publication" of that Association giving these definitions and regulations may be obtained from the secretary-treasurer, B. D. Cloaninger, Drawer 392, Clemson, South Carolina, for \$4.00.

FIRMS AND REGISTRATIONS

For 1964, 108 firms registered 676 brands of fertilizer for sale in this State. The following list gives the names and addresses of these manufacturers and the brands registered by them. Included also are the companies and brands whose products were not registered because they were sold only in packages of 10 pounds or less net weight; these are distinguished by being starred. Listed also are a few companies whose products were not in small packages but failed to be registered. Brands not in small packages that were unregistered for any reason are marked with a /.

Mfr.

No.

Name, Address and Brands

1. AGRICULTURAL PRODUCTS CO., INC., 589 Atwells Ave.,
Providence, R.I.
Blue Ribbon 5-10-5
Golden Comet 10-6-4
Guardian 8-6-4
Super Turf King 10-6-4
Turf King 5-10-5
2. AGRICULTURAL SUPPLY CO., P. O. Box 57, West
Haven, Conn.
Yale Special Mixture 8-6-2
3. AGWAY, INC., 300 S. Geddes St., Syracuse, N. Y.
Agway 0-10-30 W/B
Agway 5-10-10
Agway 8-16-16
Agway 10-10-10
Agway 10-15-15 Taterbest
Eastern States 0-10-30 W/B
Eastern States 0-25-25
Eastern States 5-10-10
Eastern States 8-16-16
Eastern States 10-5-5 Green Lawn
Eastern States 10-5-5 Green Lawn with Dacthal
Eastern States 10-6-4 Lawn Special
Eastern States 10-10-10
Eastern States 10-15-15
Eastern States 10-20-10 Super Formula
Eastern States 10-20-20 Super Formula
Eastern States 12-12-12 LC
Eastern States 15-10-10 Super Formula
Eastern States 15-15-15 Super Formula
Eastern States 16-32-16 Start-N-Gro
Eastern States DiAmmonium Phosphate
Eastern States Evergreen Food 8-8-8
Eastern States Garden Plant Food 5-10-10

3. AGWAY, INC., 300 S. Geddes St., Syracuse, N. Y. - Cont.
 - Eastern States Rose Food 5-10-5
 - Eastern States Steamed Bone Meal
 - Eastern States Sulfate of Ammonia
 - Eastern States 20% Superphosphate
 - U.S. Borax 20 Mule Team Fertilizer Borate-46
 - High Grade Coarse Mesh
4. ALASKA FERTILIZER CO., 84 Seneca St., Seattle 1, Wash.
 - Alaska Deodorized Fish Fertilizer
5. ALLIED CHEMICAL CORP., Nitrogen Division, P.O. Drawer 61, Hopewell, Va.
 - "Arcadian" Ammonium Sulfate
 - "Arcadian" ANL Fertilizer Compound
 - "Arcadian" Cold-AN Pelleted Ammonium Nitrate
 - "Arcadian" Golden 30 Solution
 - "Arcadian" Golden Uran 32 Solution
 - "Arcadian" Nitrana Solution 3
 - "Arcadian" Nitrana U Solution
 - "Arcadian" Nitrate of Soda
 - "Arcadian" Urea 45 Fertilizer Compound (Pelleted)
6. AMERICAN AGRICULTURAL CHEMICAL CO., 285 River St., North Weymouth 91, Mass.
 - AA Plant Food 5-10-5
 - AA Plant Food 10-6-4
 - AA Quality Fertilizer 0-15-30
 - /AA Quality Fertilizer 0-20-20
 - AA Quality Fertilizer 5-8-7
 - AA Quality Fertilizer 5-10-5
 - AA Quality Fertilizer 5-10-10 with 1.2 Mg
 - AA Quality Fertilizer 7-7-7
 - AA Quality Fertilizer 8-16-16
 - AA Quality Fertilizer 10-10-10
 - AA Quality Fertilizer 15-10-10
 - AA Quality Phosphate Rock
 - Agrico 1-2-3
 - Agrico A. C. R. Fertilizer
 - Agrico Country Club Fertilizer 12-4-8
 - Agrico Country Club Fertilizer 16-8-8
 - Agrico Evergreen Fertilizer
 - Agrico for Corn
 - Agrico for Lawns, Trees & Shrubs
 - Agrico for Plowdown
 - Agrico for Potatoes
 - Agrico for Seeding Down
 - Agrico Garden Fertilizer
 - Agrico Grass Food 10-6-4
 - Agrico Grass Food 16-8-8
 - Agrico Insect Control with Fertilizer
 - Agrico Phosphate & Potash 0-10-30
 - Agrico Phosphate & Potash 0-20-20

6. AMERICAN AGRICULTURAL CHEMICAL CO.,
285 River St., North Weymouth 91, Mass. - Cont.
Agrico Rose Food
Agrico Weed Control with Fertilizer
Agrinite Plant Food
Agri-Phos Superphosphate
Agri-Tone Water Soluble Plant Food
18% Normal Superphosphate
Homestead Custom Lawn Food
Homestead Farm Style Fertilizer 5-10-5
Homestead Farm Style Fertilizer 10-6-4
*Homestead Fertilizer for Acid Loving Plants
7. AMERICAN CYANAMID CO., P. O. Box 400, Princeton, N. J.
Aero Cyanamid Granular - 20.5%
Aero Cyanamid Granular - 21.0%
Aero-Phos Ammonium Phosphate 11-48-0
Aero-Phos Diammonium Phosphate 18-46-0
Aero Phosphoric Acid
Aeroprills Ammonium Nitrate
Aero Urea Coated Prills
Amanol Nitrogen Solution
Trebo-Phos Triple Superphosphate
8. AMERICAN FERTILIZER CO., P. O. Box 6940-A,
Chicago, Illinois
(Registered by International Minerals & Chemical
Corp., P. O. Box 230, Woburn, Mass.)
Gold Seal 10-6-4 Lawn Food
Gold Seal 12-2-4 Lawn Food with Crabgrass Preventer
Gold Seal 20-10-5 Lawn Food
Gold Seal 5-10-5 Plant Food
Shamrock Lawn Food 20-10-5
9. AMERICAN HUMATES, INC., Fidelity Union Tower,
Dallas, Texas 75201
Aqua Humus
10. A-PENN OIL CO., P. O. Box 191, Butler, Pa.
(Registered by International Minerals & Chemical
Corp., P. O. Box 230, Woburn, Mass.)
Marvel Green Lawn Builder 20-10-5
11. ARCHER DANIELS MIDLAND CO., 733 Marquette Ave.,
Minneapolis, Minnesota
Osmocote 14-14-14
Osmocote 18-9-9
Osmocote 36-0-0

12. ARMOUR AGRICULTURAL CHEMICAL CO., P.O. Box 10,
 Carteret, New Jersey
- Armour Armorganic Plant Food
 Armour Big Crop Fertilizer 0-20-20
 Armour Big Crop Fertilizer 5-8-7
 Armour Big Crop Fertilizer 5-10-5
 Armour Big Crop Fertilizer 5-10-10
 Armour Big Crop Fertilizer 7-7-7
 Armour Big Crop Fertilizer 10-10-10
 Armour Big Crop Superphosphate
 Armour Bone Meal Fertilizer
 Armour Cattle Manure 2-1-2
 Armour Gold Bond Tobacco Grower 6-3-6
 Armour Home & Garden Special
 Armour Lawn Special 10-6-4
 Armour Lightweight Vertagreen 20-10-5
 Armour Sheep Manure 1.25-1.00-2.00
 Armour Vertagreen for Acid Loving Plants 5-10-10
 Armour Vertagreen for Lawns & Gardens
 Armour Vertagreen Plant Food 5-10-5
 Armour Vertagreen Plant Food 5-10-5 with 2,4-D
 Armour Vertagreen Plant Food for Commercial Crops
 Armour Vertagreen Plant Food for Commercial Crops -
 Tobacco Special 6-4-7
 Armour Vertagreen Plant Food for Turf & Trees
 Armour Vertagreen Rose Food 5-10-5
 Armour Vertagreen 10-6-4 for Turf (60% Organic Nit.)
 Armour Vertagreen Turf Food 10-6-4 with Chlordane
 Armour Vertagreen Turf Formula 8-6-2 (50% Org. Nit.)
 Armour Vertagreen Turf Formula 8-6-2 (60% Org. Nit.)
13. ASGROW SEED CO., 272 George St., New Haven, Conn.
- Asgrow 10-6-4
 Asgrow 3-Way
 Asgrow Gro-Sod Lawn Food
 Asgrow Weed-Nix Lawn Food with 2,4-D and Silvex
 Breck's 10-6-4
 Breck's Big-3
 Breck's Feed-no-Weed with 2,4-D
 Breck's Garden-Gro
 Breck's Greenite
 Breck's Quick Life
 Breck's Turf-Gro
14. ATLANTIC SEED CO., Chimney Rock Rd., Bound Brook, N.J.
- Atlantic for Turf 50% Organic
 Atlantic Lightweight for Turf
 Atlantic Weed & Feed
15. *ATLAS FISH FERTILIZER CO., 1 Drumm St.,
 San Francisco, California
- Atlas Fish Emulsion Fertilizer 5-1-1

16. THE F. A. BARTLETT TREE EXPERT CO., 2770 Sumner St., Stamford, Connecticut
Bartlett Green Tree Food
17. THE BAUGH CHEMICAL CO., 25 S. Calvert St., Baltimore, Maryland 21202
Ground Undissolved Phosphate Rock
18. BISHOP PROCESSING CO., Bishop, Maryland
Steamed Bone Meal
19. *BLACK MAGIC INC., Box 578-P, Hermosa Beach, Calif.
Black Magic African Violet Blossom Booster 4-10-10
Black Magic Plant Food Tablets 2-3-2
20. BLACKSTONE GUANO CO., INC., 2000 Chesapeake Ave., Baltimore, Maryland 21226
Blackstone Fairlawn Fertilizer 5-10-5
Blackstone Fairlawn Fertilizer 10-6-4
Blackstone Fairlawn Liteweight
Blackstone Fairlawn 50% Organic
Blackstone Fairlawn 100% Organic
Blackstone Fairlawn with 2, 4-D
Blackstone Plantation Fertilizer 5-10-5
Blackstone Plantation Fertilizer 10-6-4
Blackstone Plantation Lawn Food
Blackstone Ranch Home
Park Lane 10-6-4 Fertilizer and Weed Killer Combination
21. BONIDE CHEMICAL CO., INC., 382 N. Genesee St., Utica, New York 13502
/Adams Nursery Mart Weed & Feed Granules
/Holdridge Farm Nursery Weed & Feed Granules
Weed & Feed
22. THE BORDEN CHEMICAL CO., Division, The Borden Co., 350 Madison Ave., New York, New York 10017
Borden's "38"
23. *BOYLE-MIDWAY, INC., Cranford, New Jersey
Heller Gro Makes Lawns Green Liquid Fertilizer
24. BROOKSIDE NURSERIES, INC., 228 Brookside Rd., Darien, Connecticut
Brookside's Bone Meal
Brookside's Dried Blood
Brookside's Horn Shavings or Meal
Brookside's Nature's Evergreen
Brookside's Nature's Nutrients
Brookside's Nature's Thrift
Brookside's Ultra-Ganic

25. W. ATLEE BURPEE CO., 18th & Hunting Park Ave.,
Philadelphia 32, Pennsylvania
Burpee Lawn Food
26. CADWELL & JONES, INC., 199 Walnut St., Hartford, Conn.
C & J Hi-Organic
C & J Homogeneous Gran. Fertilizer 5-10-5
C & J Homogeneous Gran. Fertilizer 5-10-10
C & J Homogeneous Gran. Fertilizer 10-6-4
C & J 7500 Lawn Food
C & J Lawn-Weed Killer
C & J Plant Food
27. CALIFORNIA CHEMICAL CO., ORTHO Div., Lucas & Ortho
Way, Richmond, California 94804
Ortho-Gro Liquid Plant Food 12-6-6
Ortho-Gro Liquid Plant Food 15-5-5
Ortho-Gro Starter Solution 8-16-8
Ortho Liquid Evergreen & Azalea Food 10-8-7
Ortho Liquid Rose Food 8-12-4
Ortho Liquid Tomato Food 6-18-6
Ortho Pelleted Fertilizer 18-46-0
Ortho Prilled Ammonium Nitrate Fertilizer
Ortho Triple Superphosphate 0-46-0
Ortho Unipel Fertilizer 10-20-20
Ortho Unipel Fertilizer 16-16-16
Ortho Unipel Fertilizer 20-10-10
Ortho Unipel Fertilizer 22-22-0
Ortho Unipel Pelleted Fertilizer 14-14-14
Ortho Unipel Pelleted Fertilizer 16-48-0
Ortho Unipel Pelleted Fertilizer 20-20-0
Ortho Unipel Starter Special Fertilizer
Trona Muriate of Potash
28. *CALIFORNIA LIQUID FERTILIZER CO., 36 Pico St.,
Pasadena, California
California Liquid Green Thumb Fertilizer 10-10-5
29. THE CANADA LINSEED OIL MILLS, LTD., 2215 Notre
Dame St., East Montreal 24, Quebec, Canada
Maple Leaf 34% Protein Expeller Linseed Oil Meal
30. CARBOLA CHEMICAL CO., INC., Natural Bridge, N. Y.
Carbola CCC Triple 20 Plant Food
31. PETER CASCIO NURSERY, INC., 2600 Albany Ave., West
Hartford, Connecticut
Cascio's High Organic 10-6-4 Lawn Food
Cascio's Lawn Food & Weed Killer
Cascio's Organite
Cascio's Professional 5-10-5 Lawn Food

32. CHILEAN NITRATE SALES CORP., 120 Broadway, New York 5, New York
Chilean Nitrate of Soda - Champion Brand
Chilean Nitrate of Soda-Potash - Champion Brand
33. *CLINTON NURSERY PRODUCTS, INC., Clinton, Conn.
New Era All Purpose Plant Food 7-15-8
New Era Deodorized Fish Emulsion African Violet Food
New Era Gro 10-15-12
34. CLORO-SPRAY CORP., 2215 N. American St., Philadelphia 33, Pennsylvania
Cloro-Spray
Fairway-Spray
35. COCKE & CO., 208 William-Oliver Bldg., Atlanta, Georgia
Cocke-Sure Brand 41% Protein Cottonseed Meal
36. CONSOLIDATED RENDERING CO., 178 Atlantic Ave., Boston 10, Massachusetts
Corenco 0-15-30
Corenco 0-20-20
Corenco 5-8-7
Corenco 5-10-5
Corenco 5-10-5 Home Garden & Lawn Starter
Corenco 5-10-5 Rose Food
Corenco 5-10-10
Corenco 5-10-10 with 1.2 Mg
Corenco 6-3-6 Perfection
Corenco 6-3-6 Premium
Corenco 6-8-8 with 1.2 Mg
Corenco 7-7-7
Corenco 7-7-7 Rhododendron
Corenco 8-6-2 Landscape
Corenco 8-6-4 Turf Green
Corenco 8-6-4 with Chlordane
Corenco 8-12-12 with .9 Mg
Corenco 8-16-16
Corenco 10-5-5 Organo
Corenco 10-6-4 Golf & Lawn
Corenco 10-6-4 Golf & Lawn with Dacthal
Corenco 10-6-4 Pro-Grass
Corenco 10-8-2 Timberline
Corenco 10-10-10
Corenco Gran. 10-15-15 with 1.2 Mg
Corenco 15-10-10
Corenco Bone Meal
Corenco Liquid 5-10-10
Corenco Liquid 10-5-5
Corenco Organic Turf
Corenco Sheep Manure with Inert Matter
Corenco 20% Superphosphate
Corenco Weed-B-Done 18-3-5

36. CONSOLIDATED RENDERING CO., 178 Atlantic Ave.,
Boston 10, Massachusetts - Cont.
Cottonseed Meal
Dried Blood
Luzerne 5-10-5
Luzerne 10-6-4
Muriate of Potash 60%
Spurzon
Sulphate of Ammonia
Sulphate of Potash 50%
37. THE DANBURY GARDEN CENTER, Danbury, Connecticut
(Registered by The Hubbard-Hall Chemical Co.,
128 Benedict St., Waterbury, Connecticut)
Lawn Food
38. THE DAVERY TREE EXPERT CO., 117 South Water St.,
Kent, Ohio
Arbor-Green
Davey Tree Food
Da-V-Green
39. DAYTON FERTILIZER CORP., Georges Rd., Dayton, N.J.
Grand Garden 6-10-4 Fertilizer
Grand Lawn 10-6-4 40% Organic Fertilizer
Grand Lawn 15-7-5 Lightweight Fertilizer
Lawn Treat 5-10-5 Fertilizer
40. DELPHOS SOYA PRODUCTS CO., 234 S. Jefferson St.,
Delphos, Ohio
44% Protein Soybean Meal
41. THE DOUGHTEN SEED CO., Purcell Court, Moonachie,
New Jersey
Doughten's Lawn Food 9-8-3
Doughten's Plant Food 4-6-2
42. E. I. DUPONT DE NEMOURS AND CO., 6054 DuPont
Bldg., Wilmington, Delaware 19898
DuPont Nu Green Urea Fertilizer 45-0-0
*DuPont Rose Food 8-8-8
DuPont Turf Food 20-10-10
DuPont Turf Food 20-10-10 with 2, 4-D
DuPont Uramite Ureaform Fertilizer 38-0-0
DuPont Uramite M Ureaform Fertilizer 38-0-0
DuPont Urea Nitrogen Fertilizer

43. EASTERN DEHYDRATING CO., Route 7, Lexington, N. C.
Fertal-Gro (Dehydrated Cow Manure)
Fertal-Gro (Dehydrated Sheep Manure)
Fertal-Gro (T Mulch Ground Tobacco Stems)
Green Acres (Dehydrated Cow Manure)
44. EASTMAN GELATINE CORP., 227 Washington St.,
Peabody, Massachusetts
Dicalcium Phosphate
45. ELANCO PRODUCTS CO., Division, Eli Lilly & Co.,
740 S. Alabama St., Indianapolis 6, Indiana
(HO 70) Greenfield Double Action Rose Food
(HO 62) Greenfield Instant Plant Food
(HO 60) Greenfield Measured-Release Lawn Food
(HO 61) Greenfield Measured-Release Lawn Food
with Broadleaf Weed Killer
(HO 40) Greenfield Triple Action Crab Grass Killer
(HO 48) Greenfield Triple Action Evergreen Food
(HO 49) Greenfield Triple Action Plant Food
46. THE ESPOMA CO., P. O. Box 431, Millville, New Jersey
Bulb-Tone
Espoma Organic
Espoma Rose Food
Garden-Tone
Holly-Tone
Turf-Tone
47. ESTATE FERTILIZER, Division, Morris Karp & Sons,
81 Secatogue Ave., Farmingdale, New York
Estate 5-10-5
Estate 10-6-4
48. EXCEL SEED CO., 5300 Katrine Ave., Downers Grove, Ill.
Excel Lawn Food
49. LEON EZZELL INC., 1538 Summer St., Stamford, Conn.
Ezzell's Lawn Food 60% Organic Nitrogen
50. FAESY & BESTHOFF, INC., 143 River Rd., Edgewater, N. J.
F & B Azalea-Camellia-Rhododendron Food 5-10-10
F & B Cottonseed Meal
F & B Evergreen Food 7-7-7
F & B Garden Food
F & B Pure Steamed Bone Meal 1.00-11.69-0
F & B Pure Steamed Bone Meal 2.47-11.60-0
F & B Rose Food

51. FARMERS ORGANIC, Linwood, North Carolina
Barnyard Gem (Dehydrated Cow Manure)
52. FARMERS ORGANIC CORP., 2459 Youngstown Rd.,
Ransomville, New York
O'C Brand Dehydrated Cow Manure 2-1-2
53. FARMINGDALE GARDEN LABS., INC., 136 Verdi St.,
Farmingdale, New York
Farmingdale Double Action Weed & Feed
Farmingdale Lawn Food with Chlordane & Dieldrin
54. FEDERAL CHEMICAL CO., Prospect Plains, Cranbury,
New Jersey
Counselor Double Purpose
Counselor Garden Fertilizer
Counselor Premium
Counselor Rose Fertilizer
Counselor Triple Purpose Fertilizer
Federal Lawn Life Plant Food
Federal Lawn Life Plant Food 50% Organic
Federal Lawn Life Plant Food 100% Organic
Lawn and Garden 5-10-5
Lawn and Garden 10-6-4
Lawn Master Turf Food 5-10-5
Lawn Master Turf Food 10-6-4
Lawn Master Turf Food 20-10-5
Lawn Master Turf Food 25% Organic
Lawn Master Turf Food 50% Organic
Lawn Master Turf Food 100% Organic
Princeton Park
55. FIRST NATIONAL STORES, INC., East Hartford, Conn.
(Registered by The Hubbard-Hall Chemical Co.,
28 Benedict St., Waterbury, Connecticut)
Emerald Green Evergreen Food
Emerald Green Lawn Food
Emerald Green Plant Food
Emerald Green Rose Food
56. /FOOD FAIR STORES, INC., Philadelphia 4, Pennsylvania
Garden Fair Lawn Maker
57. THE GARDEN CENTER, 53 LaSalle Rd., West Hartford,
Connecticut
Garden Center of West Hartford Lawn Food

58. THE GARDEN EXCHANGE CO., 4244 Madison Ave.,
Trumbull, Connecticut
(Registered by The Hubbard-Hall Chemical Co.,
28 Benedict St., Waterbury, Connecticut)
Lawn Food
59. GEIGY AGRICULTURAL CHEMICALS, Saw Mill River Rd.,
Ardsley, New York
Geigy Sequestrene 138 Fe Iron Chelate
Geigy Sequestrene 330 Fe Iron Chelate
Geigy Sequestrene Na₂Cu Copper Chelate
Geigy Sequestrene NaFe Iron Chelate
Geigy Sequestrene Na₂Mn Manganese Chelate
Geigy Sequestrene Na₂Zn Zinc Chelate
Geigy Sequestrene Zn 45 Chelate Granules
60. GLEN TERRACE NURSERIES, INC., 1960 Whitney Ave.,
Hamden, Connecticut
Glen Terrace Lawn Food 10-6-4
61. GODFREY'S GARDEN SHOP, Fairfield, Connecticut
(Registered by The Hubbard-Hall Chemical Co.,
28 Benedict St., Waterbury, Connecticut)
Godfrey's Lawn & Tree Food
62. GODFREY'S OF FAIRFIELD, 1630 Post Rd., Fairfield,
Connecticut
(Registered by Miller Chemical & Fertilizer Corp.,
3006 W. Cold Spring Lane, Baltimore 15, Maryland)
Godfrey's Professional Lightweight Turf Food 20-6-4
63. GOLDENROD OIL MEAL SALES CO., 727 Beale St.,
Memphis, Tennessee
Goldenrod Brand 41% Protein Cottonseed Meal -
Prime Quality
64. GOULARD & OLENA, INC., Skillman, New Jersey
(Registered by Miller Chemical & Fertilizer Corp.,
3006 W. Cold Spring Lane, Baltimore 15, Maryland)
G & O Bone Meal 1-23-0
G & O Bulb Food
G & O Dried Blood
G & O Evergreen Food
G & O Hyganic Lawn Food
G & O Plant Food for Acid-Loving Plants
G & O Prime Cottonseed Meal
G & O Prizegro for Gardens
G & O Rose Food
G & O Tomato & Fruit Food
G & O Turf Food & Insecticide 10-6-4 with Chlordane
G & O Turf Food & Weed Killer 10-6-4

65. W. R. GRACE & CO., Davison Chemical Division,
Hill Plant, Baltimore 26, Maryland
Davco 3-G Granulated Fertilizer 0-10-30
Davco 3-G Granulated Fertilizer 0-15-30
Davco 3-G Granulated Fertilizer 0-20-20
Davco 3-G Granulated Fertilizer 5-10-5
Davco 3-G Granulated Fertilizer 5-10-10
Davco 3-G Granulated Fertilizer 8-16-16
Davco 3-G Granulated Fertilizer 10-6-4
Davco 3-G Granulated Fertilizer 10-6-4 (50% Organic)
Davco 3-G Granulated Fertilizer 10-10-10
Davco Granulated 20% Superphosphate
Davco Granulated Triple Superphosphate
Turf Food 10-6-4
Turf & Garden Food 5-10-5
66. W. R. GRACE & CO., Nitrogen Products Division, P. O.
Box 277, 147 Jefferson Ave., Memphis, Tennessee
Grace Urea Crystal
Grace Urea Prills - 45%
Grace Urea Prills - 46%
67. THE GRAND UNION CO., 100 Broadway, E. Patterson, N. J.
(Registered by Dayton Fert. Corp., Dayton, N. J.)
Grand Union 5-10-5 Fertilizer
Grand Union 6-10-4 Fertilizer
Grand Union 10-6-4 40% Organic Nitrogen Fertilizer
Grand Union 15-7-5 Lightweight Lawn Fertilizer
68. *GRAY CHEMICAL, INC., Gloucester, Massachusetts
Gray Mer-Made Plant Food 5-5-1
69. THE GREENLIFE PRODUCTS CO., West Point, Virginia
Greenlife Azalea Food 12-7-4
Greenlife Cow Manure
Greenlife Plant Food 10-6-4
Greenlife Rose Food 8-8-8
70. GREEN RIBBON PRODUCTS CO., Sackett Point Rd.,
North Haven, Connecticut
(Registered by The Hubbard-Hall Chemical Co.,
28 Benedict St., Waterbury, Connecticut)
Green Ribbon Fertilizer
Green Ribbon Fertilizer - Lawn Food
71. GRO FAST FERTILIZER ASSOCIATES, Chamberlain Rd.,
Windsorville, Connecticut
(Registered by The Hubbard-Hall Chemical Co.,
28 Benedict St., Waterbury, Connecticut)
Gro Fast Lawn Food
Gro Fast Plant Food

72. HALSTEAD DISTRIBUTING CORP., Suttons Lane, Mount Kisco, New York
Just Right 5-10-5
Just Right 10-6-4
73. *HARRISON SPECIALTY CO., INC., Boston 67, Mass.
Chemton Liquid Plant Food 5-5-5
74. THE CHAS. C. HART SEED CO., 304 Main St., Wethersfield, Connecticut
Hart's All Organic
Hart's All Purpose Plant Food
Hart's Crabgrass Seed Killer & Lawn Fertilizer
Hart's Rose Food
Hart's Turf Food
Hart's Two-For-One
75. HERCULES POWDER CO., Hercules Tower, 910 Market St., Wilmington, Delaware 19899
Nitroform
76. HERITAGE HOUSE PRODUCTS, INC., 701 S. Front St., Philadelphia 47, Pennsylvania
Heritage House Evergreen Plant Food
Heritage House Lawn Food
Heritage House Three In One
Heritage House Tree and Shrub Food
Heritage House Weed Killer Lawn Food
Seaboard Lawn Builder
Seaboard Weed and Feed
Society Hill Lawn Feeder
77. HERSHEY ESTATES, INC., Hershey, Pennsylvania
Ko-K-O Meal
78. A. H. HOFFMAN, INC., Landisville, Pennsylvania
*Hoffman Azalea & Evergreen Food 4-6-10
Hoffman Cow Manure (Dehydrated)
Hoffman Rose Food
Hoffman Sheep Manure (Dehydrated)
Hoffman Sterilized Bone Meal
Mistress Mary Brand Dehydrated Cow Manure
Mistress Mary Fertilizer for Gardens
Mistress Mary Sterilized Bone Meal
79. HOLDRIDGE FARM NURSERY, Route 27, Ledyard, Conn.
(Registered by Miller Chemical & Fertilizer Corp.,
3006 W. Cold Spring Lane, Baltimore 15, Maryland)
Our Own Holdridge 20-6-4 Turf Food

80. THE HUBBARD-HALL CHEMICAL CO., 28 Benedict St.,
Waterbury, Connecticut

Baugh's Pure Steamed Bone Meal
Bone Meal
Castor Pomace
Cotton Hull Ashes
Di Ammonium Phosphate
Dry Ground Fish
Gro Mor Garden Fertilizer
HH Blade Lawn Food
HH Bulb Food
HH Composted Cow Manure
HH Composted Sheep Manure
*HH Cottonseed Meal 6-0-0
HH Cow Manure
HH Evergreen Food
HH Luxura Lawn Food
HH Nitrogranic
HH Plant Food
HH Rose Food
HH Sheep Manure
HH Turf 'N Tree Food
HH Turf 'N Tree Food with Insect Control
HH 3 Way Turf 'N Tree Food
HH Weed-Kil Lawn Food
Lawn Craft Seed Starter
Lawn Craft Tree & Shrub Food
Lawn Craft Turf Fertilizer 8-6-4
Lawn Craft Turf Fertilizer 10-5-5
Lawn Craft Turf Fertilizer with Chlordane
Lawn Craft Turf Fertilizer with Fish Base
Lawn Craft Turf Food
Lawn Craft Turf Food (60% Organic-Urea-Form and
Act. Sludge)
Lawn Craft VFT Fortified Turf Food
Lawn Craft VFT Turf Food
Liberty Blueberry Special 10-5-10
Liberty Fertilizer 0-10-20
Liberty Fertilizer 0-10-30
Liberty Fertilizer 0-15-30
Liberty Fertilizer 0-20-20
Liberty Fertilizer 4-8-20
Liberty Fertilizer 4-10-0
Liberty Fertilizer 5-8-7
Liberty Fertilizer 5-10-5
Liberty Fertilizer 5-10-10
Liberty Fertilizer 5-10-10 with 1.2 Mg
Liberty Fertilizer 7-7-7
Liberty Fertilizer 8-6-4
Liberty Fertilizer 8-16-16
Liberty Fertilizer 10-6-4
Liberty Fertilizer 10-10-10
Liberty 10-10-10 50% Organic, 25% Natural Organic
Liberty Fertilizer 10-20-20
Liberty Fertilizer 15-10-10

80. THE HUBBARD-HALL CHEMICAL CO., 28 Benedict St.,
Waterbury, Connecticut - Cont.
Liberty Fertilizer 15-15-15
Liberty Fertilizer 16-8-16
Liberty Super Corn Fertilizer
Liberty Super Gro Fertilizer
Liberty Super Spud Fertilizer 6-8-8 with 1.2 Mg
Liberty Super Spud Fertilizer 8-10-10 with 1.2 Mg
Liberty Tobacco Fertilizer
Muriate of Potash
Nitrate of Potash
Precipitated Bone
/State of Connecticut (50% Organic Nitrogen)
/State of Connecticut (10 lbs. Borax per ton)
Superphosphate, 20%
Superphosphate, 46%
Viking Ship Brand Calcium Nitrate
/West Hartford "A" Fertilizer
/West Hartford Urea-Form "B"
Woodruff's Lawn & Tree Food
81. *THE HY-TROUS CORP., Boston, Massachusetts
Hy-Trous Liquid Fertilizer 4-8-4
82. INTERNATIONAL MINERALS & CHEMICAL CORP.,
5401 Old Orchard Road, Skokie, Illinois
Diammonium Phosphate
Muriate of Potash
Sul-Po-Mag
83. INTERNATIONAL MINERALS & CHEMICAL CORP.,
316 New Boston St., Woburn, Massachusetts
Fertilis 5-10-5
Fertilis 8-6-2
Fertilis 10-6-4 50% Organic
IMC Bone Meal Steamed 2.47-23-0
IMC Thrive Evergreen Food 10-8-4
IMC Thrive Lawn Food 24-10-5
IMC Thrive Rose Food 8-10-4
Mello-Green 5-5-0
84. SPENCER KELLOGG, Division, Textron, Inc., 120 Dela-
ware Ave., Buffalo, New York 14240
Spencer Kellogg's 31% Protein Old Process (Expeller)
Linseed Meal
85. N. S. KOOS & SON CO., 4500 13th Court, Kenosha, Wisc.
/Mr. Turf's Flower & Garden Fertilizer
Mr. Turf's Lawn Fertilizer
Mr. Turf's Weed & Feed

86. LAWN-TEX, INC., 2005 East End Ave., Box 101,
Chicago Heights, Illinois
Organi-Green
87. LEBANON CHEMICAL CORP., P.O. Box 693, Lebanon, Pa.
Lebanon Azalea-Evergreen Food
Lebanon Bone Meal
Lebanon Crabgrass Killer & Lawn Fertilizer with DDT
Grub Control
Lebanon Fertilizer 5-10-10
Lebanon Hi Organic
Lebanon Rose Food
Lebanon Truck Crop
Lebanon Turf Organic
Lebanon Uniform
Pennsylvania Dutch 10-6-4
Pennsylvania Dutch New Turf 5-10-5
Pennsylvania Dutch New Turf 10-6-4 100% Organic N
Pennsylvania Dutch Plant Food
88. LEWIS BROTHERS, INC., 810 Silas Deane Highway,
Wethersfield, Connecticut
(Registered by Miller Chemical & Fertilizer Corp.,
3006 W. Cold Spring Lane, Baltimore 15, Maryland)
Lewis Brothers, Inc. Country Club Lawn Food
89. LOFTS PEDIGREED SEED INC., Chimney Rock Road,
Bound Brook, New Jersey
Atlantic's Lightweight Fertilizer
Atlantic's Weed & Feed
Loft's for Turf 50% Organic
Loft's Lightweight Fertilizer for Turf
Loft's Weed & Feed
90. THE MAGOVERN CO., Lawn Acre Rd., Windsor Locks,
Connecticut
(Registered by The Mamlon Co., P.O. Box 3046,
New Haven 15, Connecticut
Mag-Gro Fairway Fertilizer
91. THE MAMLON CO., P.O. Box 3046, New Haven 15, Conn.
Fer-Mel Fairway Turf Food
Fer-Mel General Purpose Plant Food
Fer-Mel Premium Lawn Food
Fer-Mel 50 Supreme Lawn Food
Fer-Mel Water Soluble Turf & Tree Food
92. McARDLE'S SEED CO., 388 Greenwich Ave., Greenwich,
Connecticut
McArdle's 10-6-4
McArdle's Turf Food

93. MILLER CHEMICAL & FERTILIZER CORP., 3006 West
Cold Spring Lawn, Baltimore 15, Maryland
Miller Azalea Food with Chelated Iron
Miller 10-6-4 Plus 3
94. MONSANTO CHEMICAL CO., 800 North Lindbergh Blvd.,
St. Louis, Missouri 63166
Monsanto Ammonium Nitrate
Monsanto Mono Ammonium Phosphate
Monsanto Phosphatic Fertilizer Solution
Monsanto Urea
95. THE NATURAL DEVELOPMENT CO., Box 215, Bain-
bridge, Pennsylvania 17502
Fertrell, Blue Label
Fertrell, Gold Label
Fertrell, Super
Fertrell, Super "N"
96. NELSEN STEEL & WIRE CO., 9400 W. Belmont Ave.,
Franklin Park, Illinois
Green Garde
97. NUTRI-FOAM PRODUCTS, INC., 1001 W. Belt Dr.,
Houston 24, Texas
Nutri-Foam
98. OLD DEERFIELD FERTILIZER CO., South Deerfield, Mass
(Registered by The Hubbard-Hall Chemical Co.,
28 Benedict St., Waterbury, Connecticut)
Deerfield Lawn Food
Deerfield Plant Food
99. OLD FOX AGRICULTURAL SALES, INC., 66 Valley St.,
East Providence, Rhode Island
Green Lawn
Old Fox 0-0-60
Old Fox 0-15-30
Old Fox 0-20-0
Old Fox 4-16-20
Old Fox 5-10-10
Old Fox 6-3-6
Old Fox 6-3-6 with 1.2 Mg
Old Fox 6-8-8
Old Fox 6-10-10
Old Fox 7-7-7
Old Fox 8-10-10
Old Fox 8-16-16
Old Fox 10-10-10
Old Fox 15-10-10
Old Fox Acid Soil
Old Fox Bone Meal

99. OLD FOX AGRICULTURAL SALES, INC., 66 Valley St.,
East Providence, Rhode Island - Cont.
Old Fox Brand 10-6-4
Old Fox Garden Food
Old Fox No Pest Turf Food
Old Fox Organo
Old Fox Rose Food
Old Fox Tree Food
Old Fox Turf Food
Old Fox Turf Food with Ureaform
Old Fox Turf & Crab Control
100. OLIN MATHIESON CHEMICAL CORP., P.O. Box 991
Little Rock, Arkansas
Ammo-Phos 13-13-13
101. ORGANIC COMPOST CORP. OF PENNSYLVANIA,
P.O. Box 70, Oxford, Pennsylvania
Fertie Composted Cow Manure
Fertie Composted Sheep Manure
Gardener's Composted Cow Manure
Gardener's Composted Poultry Manure
Gardener's Composted Sheep Manure
102. ORGANIC GROWTH PRODUCTS CO., P.O. Box 446,
Farmingdale, New Jersey
*Miracle Orga-Vite All-Purpose Evergreen Food 4-4-2
Miracle Orga-Vite Lawn Fertilizer
/Orga-Vite Dehydrated Hen Manure
103. LEE PATTEN SEED CO., Purcell Court, Moonachie, N. J.
Patco's Brand Allganic 4-6-2
Patco's Brand Chek 10-6-4 with Diphenatrile
Patco's Brand Combo 10-6-4 with 2, 4-D plus 2, 4, 5T
Patco's Brand Featherweight 20-10-5
Patco's Brand Lawn Food 9-8-3
Patco's Brand Sod Maker 10-6-4
104. JOHN J. PEPIN & CO., 314 Cotton Exchange Bldg.,
Memphis, Tennessee 38114
"Lovit Brand" 41% Protein Cottonseed Meal Prime
Quality
105. PERK-UP PRODUCTS CO., South Deerfield, Mass.
Perk-Up Lawn Food 10-6-4
Perk-Up Lawn Food 20-10-5
Perk-Up Lawn Food with Crabgrass Preventer
Perk-Up Plant Food
Perk-Up Rose Food

106. ROBERT B. PETERS CO., INC., 2833 Pennsylvania St.,
Allentown, Pennsylvania
Peters 20-5-30
Peters Carnation Special 25-5-20
Peters Easter Lily Special 16-4-12
Peters General Purpose 20-20-20
Peters Geranium Special 15-15-15
Peters Maryland Special 25-10-10
Peters Pot Mum Special 15-10-30
107. *PLANTABBS CORP., Timonium, Maryland
Plantabbs 11-15-20
108. /FRANK S. PLATT CO., Branford, Connecticut
Platt's Hi-Organic Lawn Fertilizer 10-5-5
109. FRANK POLICASTRO & SONS, INC., Glenbrook, Conn.
(Registered by The Hubbard-Hall Chemical Co.,
28 Benedict St., Waterbury, Connecticut)
Policastro's Blue Chip Turf & Tree Food
110. PROFESSIONAL TURF PRODUCTS CO., 3 Main St.,
Mount Kisco, New York
Professional Tree and Shrub Food
111. RA-PID-GRO CORP., 88 Ossian St., Dansville, New York
Ra-Pid-Gro
112. RENZULLI BROS. GARDEN CENTER, 297 Westport Ave.,
Norwalk, Connecticut
(Registered by Miller Chemical & Fertilizer Corp.
3006 W. Cold Spring Lane, Baltimore 15, Maryland)
Renzulli Bros. 10-6-4 Lawn Food
113. *ROSE MANUFACTURING CO., Beacon, New York
African Violet Food 6-12-6
114. *ROSS-DANIELS, INC., Des Moines, Iowa
Ross Plant Food Prize Rose 15-25-10
115. O. M. SCOTT & SONS CO., Marysville, Ohio
Bonus
Dawn
Halts Plus
ProTurf Fertilizer
ProTurf Fertilizer with Dicot Weed Control
ProTurf Nitrogen Fertilizer
Turf Builder 20-10-5
Turf Builder 23-7-7

116. SEARS, ROEBUCK & CO., 925 S. Homan Ave., Dept. 671,
Chicago, Illinois 60607
- Sears Composted Cow Manure
Sears-Cross Country All Organic Lawn Food
Sears-Cross Country Azalea-Camellia Food
Sears-Cross Country Bone Meal
Sears-Cross Country Bulb Food
Sears-Cross Country Crabgrass Plant Killer in
Organic Lawn Food
Sears-Cross Country Economy Fertilizer
Sears-Cross Country Evergreen Food
Sears-Cross Country Green Karpet Lawn Food
Sears-Cross Country Hi-Organic
Sears-Cross Country Instant Plant Food
Sears-Cross Country Instant Rose Food
Sears-Cross Country Instant Tomato Food
Sears-Cross Country Lawn Quick Green
Sears-Cross Country Liquid Plant Food
Sears-Cross Country Organic Cattle Manure Compost
Sears-Cross Country Organic Sheep Manure Compost
Sears-Cross Country Plant Food 5-10-5
Sears-Cross Country Plant Food 10-6-4
Sears-Cross Country Rose Food
Sears-Cross Country Sulfate of Ammonia
Sears-Cross Country Superfine Lawn Food
Sears-Cross Country Weed Killer in Organic Lawn Food
117. SEWERAGE COMMISSION OF THE CITY OF MILWAUKEE,
P.O. Box 2079, Milwaukee 1, Wisconsin
- Milorganite
118. THE SHERWIN-WILLIAMS CO., 101 Prospect Ave.,
N.W., Cleveland, Ohio
- Sherwin-Williams 32% Linseed Oil Meal
(Solvent Extracted)
119. M. L. SHOEMAKER, Division, Wilson & Co., Delaware
Ave. & Venango St., Philadelphia 34, Pennsylvania
- M. L. Shoemaker's "Swift-Sure"
120. SOUTHERN COTTON OIL, Division, Hunt Foods & Indus-
tries, Inc., S. John St., Goldsboro, North Carolina
- Sco-Co Brand 41% Protein Cottonseed Meal
121. SPECIAL PRODUCTS, Division, Davison Chemical Co.,
101 N. Charles St., Baltimore 3, Maryland
- Magamp
122. *THE SPECIALTY MFG. CO., St. Paul 14, Minnesota
- Specialty Rose & Shrub Food Pellets 15-30-15

123. SPENCER SPECIALTIES CO., P.O. Box 308, Hwy. 7,
Wilton, Connecticut
Spencer Sod Farm 50% Organic Nitrogen
124. THE STANFORD SEED CO., 560 Fulton St., Buffalo, N. Y.
Stanford's Lawn & Plant Food
Stanford's Weed & Feed
125. STERN'S GARDEN PRODUCTS, INC., 404 William St.,
Geneva, New York
Miracid
Miracle-Gro
Miracle-Gro for Roses
126. STIM-U-PLANT LABORATORIES, INC., 2077 Parkwood
Ave., Columbus 19, Ohio
Stim-U-Plant 5-8-7
Stim-U-Plant 11-12-15
127. STOKLE INC., Kennett Square, Pennsylvania
Farmyard K Gold Composted Manure
128. /STOP & SHOP SUPER MARKETS, No. Haven, Connecticut
Green Carpet Plant Food 8-12-6
129. SWIFT & CO., AgriChem Div., P.O. Box 4272, Hamden,
Connecticut 06514
All Purpose Vigoro
Garden Fair Lawn Maker 20-10-5
Golden Vigoro
Golden Vigoro Lawn Food Plus Crabgrass &
Insect Control
Golden Vigoro with End-o-Pest
Instant Vigoro
Liquid Vigoro for African Violets
Liquid Vigoro for House Plants
Par Ex
Pink Vigoro
Swift's Aluminum Sulphate
Swift's Bone Meal
Swift's Cottonseed Meal
Swift's Nitrate of Soda
Swift's Red Steer Brand Plant Food
Swift's Sulphate of Ammonia
Vigoro Azalea & Camellia Food 5-10-10
Vigoro Azalea & Camellia Food 8-16-16
Vigoro Evergreen Food
Vigoro Lawn Weeder & Feeder
Vigoro Rose Food
Vigoro Azalea & Camellia Food
Vigoro Evergreen Food
Vigoro Garden Grower

129. SWIFT & CO., AgriChem Div., P.O. Box 4272, Hamden, Connecticut 06514 - Cont.
- Vitogro Lawn Food
 - Vitogro Lawn Pest Control Plus Plant Food
 - Vitogro Lawn Weeder & Feeder
 - Vitogro Rose Food
 - Vitogro Triple Acting Crabgrass Control
130. SWISS FARMS, INC., Box J, Philmont, New York
- African Violet Food
 - Fish Emulsion Fertilizer
 - *New Plantdrops Instant Liquid African Violet Food
 - Plantdrops Liquid
 - Plant Food
 - Plant Food (liquid)
 - Rose Food
131. *TREBOR PLANT & SOIL CO., Hartford 12, Connecticut
- Magic-Gro African Violet Food 15-10-5
132. U.S. BORAX & CHEMICAL CORP., Weed Control Dept., 603 S. Shatto Pl., Los Angeles 14, California
- (Registered by The Hubbard-Hall Chemical Co., 28 Benedict St., Waterbury, Connecticut)
 - 20 Mule Team Borax, Granular, 8/40 Special Mesh, Technical, 99 1/2-100% Pure
133. UNITED STATES STEEL CORP., 525 William Penn Place, Pittsburgh, Pennsylvania 15230
- USS Ammonium Sulfate
134. UNIVERSAL CHEMICAL CO., INC., Box 195, West Lynn, Massachusetts
- Electra Plant Food
135. VALLEY FEED & SUPPLY CO., INC., Union Rd., Spring Valley, New York
- Adorna 3-1-1
 - Adorna Azalea Food 6-10-5
 - Adorna Tree Food 8-7-7
136. VALU-GRO CORPORATION, Box 21, Princeton, New Jersey
- (Registered by Miller Chemical & Fertilizer Corp., 3006 W. Cold Spring Lane, Baltimore 15, Maryland)
 - Union 5-10-5 Fertilizer
 - Valu-Gro All Purpose 10-6-4

137. VAUGHAN'S SEED COMPANY, 5300 Katrine St.,
Downer's Grove, Illinois
4-Way
Feederweeder
One Shot
Turf Food
138. VORNADO, INC. & T.G.F.H., Garfield, New Jersey
(Registered by Organic Compost Corp. of Pennsylvania,
P.O. Box 70, Oxford, Pennsylvania)
Queen Turf Composted Cow Manure
Queen Turf Composted Poultry Manure
Queen Turf Composted Sheep Manure
139. WALGREN TREE EXPERT, INC., 55 Hurlburt St., West
Hartford, Connecticut
Walgren Tree Food 8-6-2
140. WALKER-GORDON LABORATORY CO., Plainsboro, N.J.
Bovert
Bovung
141. WARREN'S TURF NURSERY, 8400 W. 111th St., Palos
Park, Illinois
Warren's Lawn Food
142. WESTERN AUTO SUPPLY CO., Kansas City, Missouri
(Registered by L. Teweles Seed Co., 222 So. 3rd St.,
Milwaukee 1, Wisconsin)
Western Auto Revelation Lawn Fertilizer 20-10-5
Western Auto Revelation Weed & Feed 20-10-5
with 2, 4-D
143. *THE WILBUR-ELLIS COMPANY, New York, New York
Wil-Gro 10-5-5
144. GARFIELD WILLIAMSON, INC., 1072 West Side Ave.,
Jersey City 6, New Jersey
Wonderlawn All-In-One (100% Organic Nitrogen)
Wonderlawn Lawn Food
Wonderlawn Turf Culture Lawn Food
145. ANDREW WILSON, INC., Baltusrol Way, Springfield, N.J.
Wilson's Eureka Plant Food
Wilson's Special Lawn Food
146. S.D. WOODRUFF & SONS OF WETHERSFIELD, INC., 304
Main St., Wethersfield, Connecticut
Woodruff's Tuf Turf Lawn Fertilizer
Woodruff's Tuf Turf Turf Food
Woodruff's Tuf Turf Two-For-One

GRADES OF FERTILIZER USED IN CONNECTICUT

The Connecticut fertilizer law does not provide for compulsory limitation of the grades that may be sold in this State. Nevertheless (until recently, at least) there has been general agreement that a small number of grades can take care of all of the needs of agriculture, and that standardization on a few grades will promote economy of manufacture, with the consequent possibility of lower prices. In contrast to this, the last few years have seen the rise in some States of so-called bulk blending plants which mix fertilizer ingredients to the order of individual farmers according to proportions determined by soil analyses. Whether this type of custom mixing will spread in Connecticut with its smaller farms remains to be seen.

To promote grade standardization the New England agronomists have from time to time compiled lists of recommended fertilizer rations and minimum grades. The last such list, which was drawn up at a meeting in Burlington, Vermont on June 19, 1961, was as follows:

<u>Ratio</u>	<u>Most Common Grade</u>
0-1-1	0-20-20
0-1-2	0-15-30
0-1-3	0-10-30
0-1-4	0-10-40
0-3-1	0-30-10
1-1-1	10-10-10
1-2-2	5-10-10
1-4-2	3-12- 6
2-1-1	10- 5- 5
2-1-2	6- 3- 6
2-3-3	8-12-12
3-2-2	15-10-10
3-4-4	6- 8- 8
4-2-3	16- 8-12
4-3-1	8- 6- 2

Sixty-seven per cent of the mixed fertilizers sold in this State during the 1963-1964 season were of the recommended ratios in grades whose plant food content equalled or exceeded the specified "most common grades". Four other grades, each of which sold at least a thousand tons (5-10-5, 8-10-10, 10-6-4 and 20-10-5), accounted for another 22 per cent. (These same grades plus one other —the 8-6-4— were purchased in similar quantities the previous year.) The numerous additional grades accounted for only 11 per cent of the total tonnage. This tonnage exceeded that for the 1962-1963 season by 9, 116 tons.

During the past season the Station agent collected samples of all registered brands that could be found on the market. The total number of official samples was 548.

The following tabulation lists the number of samples analyzed (both official and unofficial) of each class of fertilizer, as well as the tonnage sold during the period between July 1, 1962 and June 30, 1963:

TONNAGES OF FERTILIZER MATERIALS AND MIXED
FERTILIZERS PURCHASED DURING THE PERIOD OF
JULY 1, 1963 - JUNE 30, 1964

		No. of Samples	Tonnage	
I.	Containing chiefly nitrogen:			
	Nitrate of ammonia	4	289	
	Nitrate of soda	2	345	
	Sulphate of ammonia	1	21	
	Cyanamid	-	207	
	Urea	10	430	
	Nitrogen solutions	-	546	
	Castor pomace	3	717	
	Cottonseed meal	53	3,683	
	Linseed meal	4	223	
	Soybean meal	2	555	
	Dried blood	2	8	
	Horn and hoof meal	1	13	
	Tankage	1	--	
	Other materials	7	266	
				7,303
II.	Containing chiefly phosphoric acid:			
	Superphosphate 18%	-	17	
	20%	11	2,404	
	46%	7	330	
	Dicalcium phosphate	2	435	
	Phosphate rock	2	21	
	Precipitated bone	-	191	
				3,398
III.	Containing chiefly potash:			
	Muriate of potash	5	192	
	Sulphate of potash	1	4	
	Sulphate of potash-magnesia	1	--	
	Cotton hull ashes	6	310	
				506
IV.	Containing nitrogen and phosphoric acid:			
	Bone meal	19	340	
	Diammonium phosphate	1	14	
	Dry ground fish	7	212	
	Other materials	1	303	
				869
V.	Containing nitrogen and potash:			
	Nitrate of potash	5	143	
	Nitrate of potash	1	1	
				144
VI.	Mixed fertilizers:			
	Commercial mixtures	447	58,458 ¹	
	Special and home mixtures	67	9,055	
				67,513
VII.	Miscellaneous:			
	Borax	-	17	
	Magnesium sulphate	-	--	
	Manganous sulphate	-	--	
	Sheep and cattle manure	21	1,555	
	Limestone and similar materials	2	--	
	Other miscellaneous materials	9	--	
	Check meals and fertilizers	42	--	
				1,572
	Totals	747		81,305

¹ For distribution of this tonnage see next page.

Connecticut Experiment Station
MIXED FERTILIZER DISTRIBUTION

Grades approved for Connecticut

<u>Grade</u>	<u>Tons</u>	<u>Grade</u>	<u>Tons</u>
0-10-30	1,499	10-15-15	129
0-15-30	1,194	10-20-20	593
0-20-20	373	12-12-12	58
0-25-25	165	13-13-13	24
5-10-10	4,298	15-10-10	6,874
6- 3- 6	2,648	15-15-15	938
6- 8- 8	3,769	16- 8- 8	490
6-12-12	64	16- 8-12	135
7-14-14	6	16- 8-16	3
8- 6- 2	538	18-18-18	3
8-12-12	105	20-10-10	246
8-16-16	1,431	20-20-20	14
10- 5- 5	1,638	24-12-12	40
10-10-10	12,051		
		Total	39,326

Other Grades
(50 tons or more)

3- 2- 1	85	8-10-10	1,695
4-10- 4	134	9- 5- 3	72
4-16-20	301	9- 8- 3	52
5- 4- 0	472	10- 6- 4	6,655
5- 8- 7	299	10-20-10	55
5- 9- 6	80	12- 4- 8	115
5-10- 5	2,684	12- 5- 7	737
6- 8- 6	142	20- 6- 4	62
6-10- 4	354	20-10- 5	1,666
6-10-10	585	22- 8- 4	181
6-12- 4	163	25-12-10	246
7- 7- 7	631	25-12-12	72
8- 6- 4	945		
		Total	18,483

(Less than 50 tons)

3- 1- 1	35	7- 8- 5	13
3- 2- 3	28	7-10- 5	21
4- 2- 4	12	8- 8- 8	19
4- 4- 4	22	8-12- 6	31
4- 6- 4	47	8-16- 8	42
4- 8- 5	14	10- 5-10	11
4- 8-20	15	10- 8- 8	23
4-10- 0	42	11- 4- 6	16
5- 4- 4	18	12- 4- 4	13
5- 5- 0	28	16- 8- 4	14
5-20-20	15	17- 4- 4	24
6- 6- 8	22	\ Other grades	113
6- 8- 2	11		
		Total	649

Grand total 58,458

COMPLIANCE WITH GUARANTIES

The table in Circular 226 was designed to indicate at a quick glance the relative performances of the various manufacturers by two bases of measurement: (1) The total numbers of deficiencies found in their samples; and (2), the extent (expressed as percentage) to which their products offered more or less fertilizer value than was claimed, when allowance was made for the fact that an excess of one major element could offset a deficiency in another. This table gave no actual analytical figures, and did not indicate the specific fertilizers in which the summarized deficiencies occurred. Such a table probably offers a means of comparison that is both simpler and fairer than the summaries and table-underlinings of previous years. It is however wholly derivative, and its conclusions cannot be checked. Partly to furnish the missing data, and partly just to supply information on the composition of specific brands, analyses of the actual official samples with their indicated deficiencies are given in Tables 1 to 6. Comments thereon follow:

I. Materials Chiefly Valuable for Nitrogen

Analyses of 48 official samples of nitrogenous materials are given in Table 1. Forty-two of these met their guaranties and six were deficient. The substandard samples included three of cotton-seed meal and one each of ammonium nitrate, calcium nitrate and urea.

II. Materials Chiefly Valuable for Phosphoric Acid

Analyses of 12 official samples of 20 per cent superphosphate and five of the 46 per cent grade, and two each of dicalcium phosphate and phosphate rock, are given in Table 2. Of the total of 21 samples, 16 met their guaranties; two 20 per cent superphosphates, and three of the "triple" grade, were deficient.

III. Materials Chiefly Valuable for Potash

Four samples of muriate of potash, three of cotton hull ashes, and one of sulphate of potash-magnesia, were analyzed with results as given in Table 3. All samples except two of muriate of potash were passed.

IV. Materials Supplying Nitrogen and Phosphoric Acid

This group consists chiefly of dry ground fish and bone meal. For natural products such as these, guaranties of total instead of "available" phosphoric acid are permissible. Nineteen official samples of bone meal, four of dry ground fish, and one each of diammonium phosphate and "Milorganite" (a treated sewage sludge) were analyzed in 1964, with results as shown in Table 4. All samples were passed except seven bone meals and the diammonium phosphate sample. Three of the bone meals were low in nitrogen and four low in phosphoric acid, while the diammonium phosphate was deficient in both components.

V. Materials Supplying Nitrogen and Potash

One sample of straight nitrate of potash and one of mixed potassium and sodium nitrates were analyzed; both met their guaranties. Analyses are given in Table 3.

VI. Mixed Fertilizers

Commercial Mixtures

Analyses of 431 official samples of mixed fertilizers are given in Table 5. This table differs from those in previous reports in that it includes not only the samples taken from larger bags and bulk but the small-package samples that were formerly reported in a separate table.

As noted previously, the grouping of the samples in the table has been changed to place together all samples of each brand and grade.

Results of these analyses are summarized as follows:

Total number of samples		431
Samples deficient in:		
one item	138	
two items	29	
three items	1	168
Percentage of samples meeting all guaranties		61
Total guaranties made ¹		1,281
Guaranties not met:		
nitrogen	86	
phosphoric acid	81	
potash	32	199
Percentage of guaranties met		84

Twenty-four samples guaranteed between 0.12 and 4.0 per cent of magnesium (mostly 1.2 per cent) in addition to the major components; only one was low in this element. Eight samples declared between 0.075 and 0.15 per cent of iron, with no deficiencies; but one other sample listing both 0.44 per cent of iron and 0.15 per cent of manganese was low in iron. One sample carrying guaranties of the five elements, iron, boron, copper, zinc and molybdenum showed no deficiency in any of them.

Sheep and Cattle Manures

Manures must bear guaranties of nitrogen, either total or "available" phosphoric acid, and potash. Of the 21 official samples analyzed during the 1963-1964 season, 19 met all guaranties and two were low in nitrogen.

MISCELLANEOUS

Analyses of several unofficial samples of miscellaneous materials of possible or suspected plant food value are given in Table 8.

¹ Four hundred and nineteen samples with three guaranties and 12 with two guaranties (minor element guaranties not included).

Recent field experiments conducted by the University of Connecticut have indicated that the proportion of the available phosphoric acid in potato fertilizers that is present in water-soluble form is a significant factor in determining the yield of potatoes grown on land to which such fertilizers have been applied. At the request of Dr. Arthur Hawkins of the University, all of this year's official samples of the 5-10-10, 6-8-8, 8-12-12, 10-10-10 and 10-15-15 grades were analyzed for water-soluble phosphoric acid in addition to running the usual total and citrate-insoluble phosphoric acid determinations. The results so obtained have been reproduced in Table 7 for the perusal of interested potato-growers. (It should be noted that all samples in this table are also listed in Table 5.)

The usual collaboration with check analyses programs was continued. Samples analyzed included: Fourteen vegetable meal samples received from the American Oil Chemists' Society; 12 check fertilizers supplied by the National Plant Food Institute; and 16 miscellaneous samples submitted in connection with methods studies of the Association of Official Agricultural Chemists.

TABLE 1.

ANALYSES OF MATERIALS SUPPLYING CHIEFLY NITROGEN

Station No.	Manufacturer or jobber and dealer	Per cent nitrogen	
		F	G
NITRATE OF AMMONIA			
2606	Aeroprills. American Cyanamid Co., Princeton, N. J. Sampled at New Haven Rendering Co., West Haven.	33.60	33.50
2712 ¹	Aeroprills. American Cyanamid Co., Princeton, N. J. Sampled at Univ. of Conn., Agronomy Farm, Storrs.	<u>33.12</u>	33.50
2351	"Arcadian" Gold-AN Pelleted. Allied Chemical Corp., Nitrogen Div., Hope- well, Va. Sampled at Eastern States Farmers' Exchange, Inc., Putnam.	33.76	33.50
2367 ¹	"Arcadian" Gold-AN Pelleted. Allied Chemical Corp., Nitrogen Div., Hope- well, Va. Sampled at Conn. Reforma- tory, Cheshire.	33.84	33.50
NITRATE OF SODA			
2997 ²	Chilean Champion Brand. Chilean Ni- trate Sales Corp., New York 5, N. Y. Sampled at Old Fox Agricultural Sales, Inc., Hazardville.	16.16	16.00
SULPHATE OF AMMONIA			
2656	Eastern States. Eastern States Farmers' Exchange, Inc., W. Springfield, Mass. Sampled at Eastern States Farmers' Exchange, Inc., Torrington.	20.80	21.00
UREA			
2441	Aero Urea Coated Prills. American Cya- namid Co., Agricultural Div., Prince- ton, N. J. Sampled at Eastern States Farmers' Exchange, Inc., Bethel.	45.28	45.00
2225	"Arcadian" Urea 45 Fertilizer (Pelleted). Allied Chemical Corp., Nitrogen Div., Hopewell, Va. Sampled at Eastern States Farmers' Exchange, Inc., Buckland.	45.04	45.00

~~~~~ Indicates deficiencies. <sup>1</sup> State purchase.

<sup>2</sup> Sodium: Guaranteed, 26.00%; found, 25.90%.

TABLE 1.

## ANALYSES OF MATERIALS SUPPLYING CHIEFLY NITROGEN

| Station<br>No.    | Manufacturer or jobber and dealer                                                                                                                     | Per cent<br>nitrogen |       |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------|
|                   |                                                                                                                                                       | F                    | G     |
| 2461              | Borden's "38". The Borden Chemical Co., Div. of The Borden Co., N. Y., N. Y. Sampled at McArdle's Seed Co., Greenwich.                                | 39.20                | 38.00 |
| 2281 <sup>1</sup> | Du Pont NuGreen Urea Fertilizer. E. I. Du Pont de Nemours & Co., Wilmington, Del. Sampled at State Highway Dept., Portland.                           | 45.72                | 45.00 |
| 2906              | DuPont Uramite Ureaform Fertilizer. E. I. Du Pont de Nemours & Co., Wilmington, Del. Sampled at Hubbard-Hall Chemical Co., Portland.                  | 38.00                | 38.00 |
| 2670              | Grace Urea Prills. W. R. Grace & Co., Nitrogen Products Div., Memphis, Tenn. Sampled at Checkerboard Distributing Warehouse, Torrington.              | 45.44                | 45.00 |
| 2488              | Grace Urea Prills. W. R. Grace & Co., Nitrogen Products Div., Memphis, Tenn. Sampled at Hubbard-Hall Chemical Co., North Haven.                       | 46.30                | 46.00 |
| 2442              | Urea (Intermediate Grade). Agriculture Products Co., Div. of M. J. Stavola & Co., Inc., Danbury, Conn. Sampled at M. J. Stavola & Co., Inc., Danbury. | <u>30.88</u>         | 31.00 |

## CASTOR POMACE

|      |                                                                                                                          |      |       |
|------|--------------------------------------------------------------------------------------------------------------------------|------|-------|
| 2155 | Baker's Castor Pomace. Baker Castor Oil Co., Bayonne, N. J. Sampled at A. S. T. Corporation, Bloomfield.                 | 6.04 | ..... |
| 2157 | Baker's Castor Pomace. Baker Castor Oil Co., Bayonne, N. J. Sampled at A. S. T. Corporation, Bloomfield.                 | 5.60 | ..... |
| 2223 | Baker's Castor Pomace. Baker Castor Oil Co., Bayonne, N. J. Sampled at Eastern States Farmers' Exchange, Inc., Buckland. | 5.92 | ..... |

~~~~~ Indicates deficiencies.<sup>1</sup> State purchase.

TABLE 1.

ANALYSES OF MATERIALS SUPPLYING CHIEFLY NITROGEN

| Station
No. | Manufacturer or jobber and dealer | Per cent
nitrogen | |
|----------------|-----------------------------------|----------------------|---|
| | | F | G |

| COTTONSEED MEAL | | | |
|-------------------|---|-------------|-------|
| 2123 | Cocke-Sure 41%. Cocke & Co. , Atlanta, Ga. Sampled at Hatheway & Steane Corp. , West Suffield. | <u>6.40</u> | 6.56 |
| 2390 | Consolidated Rendering Co. , Boston 10, Mass. Sampled at A. S. Labieniec, Kensington. | 6.00 | 6.00 |
| 2754 ³ | Faesy & Besthoff, Inc. , Edgewater, N. J. Sampled at Gardener's Center, Inc. , Darien. | 6.36 | 6.00 |
| 2417 | G & O Prime. Goulard & Olena, Inc. , Skillman, N. J. Sampled at Renzulli Bros. Garden Center, Norwalk. | 6.48 | 6.56 |
| 2364* | Hubbard-Hall Chemical Co. , Waterbury, Conn. Sampled at Putnam Big Y Grain Co. , Putnam. | 6.24 | 6.00 |
| 2726 | Hubbard-Hall Chemical Co. , Waterbury, Conn. Sampled at Frank Policastro & Sons, Inc. , Glenbrook. | 6.52 | |
| 2154 | Independent Brand 41%. Independent Oil Mill, Inc. , Jackson, Tenn. Sam-
pled at American Sumatra Tobacco Corp. , Bloomfield. | <u>6.32</u> | 6.56 |
| 2156 | Independent Brand 41%. Independent Oil Mill, Inc. , Jackson, Tenn. Sam-
pled at A.S.T. Corp. , Bloomfield. | 6.64 | 6.56 |
| 2119/ | 41% Protein. Mississippi Cottonseed Products Co. , Greenville, Miss. Sam-
pled at Hatheway & Steane Corp. , West Suffield. | 6.48 | 6.56 |

* Small package sample.

/ Unregistered.

~~~~~ Indicates deficiencies.

<sup>3</sup> "Available" phosphoric acid: Guaranteed, 1.00%; found, 2.30%.  
Potash: Guaranteed, 1.00%; found, 1.98%.



TABLE 1.

## ANALYSES OF MATERIALS SUPPLYING CHIEFLY NITROGEN

| Station<br>No. | Manufacturer or jobber and dealer                                                                                                               | Per cent<br>nitrogen |      |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------|
|                |                                                                                                                                                 | F                    | G    |
| 2127/          | 41% Protein. Mississippi Cottonseed Products Co., Greenville, Miss. Sampled at General Cigar Co., Inc. Simsbury.                                | 6.48                 | 6.56 |
| 2128           | Sco-Co Brand 41%. Southern Cotton Oil Division, Hunt Foods & Industries, Inc., Rocky Mount, N. C. Sampled at General Cigar Co., Inc., Simsbury. | 6.48                 | 6.56 |
| 2129           | Sco-Co Brand 41%. Southern Cotton Oil Division, Hunt Foods & Industries, Inc., Goldsboro, N. C. Sampled at General Cigar Store, Inc., Simsbury. | 6.48                 | 6.56 |
| 2136           | Sco-Co Brand 41%. Southern Cotton Oil Division, Hunt Foods & Industries, Inc., Goldsboro, N. C. Sampled at General Cigar Store, Inc., Granby.   | 6.56                 | 6.56 |
| 2137           | Sco-Co Brand 41%. Southern Cotton Oil Division, Hunt Foods & Industries, Inc., Goldsboro, N. C. Sampled at Hartman Tobacco Corp., Bloomfield.   | 6.60                 | 6.56 |
| 2138           | Sco-Co Brand 41%. Southern Cotton Oil Division, Hunt Foods & Industries, Inc., Goldsboro, N. C. Sampled at Hartman Tobacco Corp., Bloomfield.   | <u>6.36</u>          | 6.56 |
| 2139           | Sco-Co Brand 41%. Southern Cotton Oil Division, Hunt Foods & Industries, Inc., Goldsboro, N. C. Sampled at Hartman Tobacco Corp., Bloomfield.   | 6.56                 | 6.56 |
| 2140           | Sco-Co Brand 41%. Southern Cotton Oil Division, Hunt Foods & Industries, Inc., Goldsboro, N. C. Sampled at Hartman Tobacco Corp., Bloomfield.   | 6.68                 | 6.56 |

## LINSEED OIL MEAL

|      |                                                                                                                                       |      |      |
|------|---------------------------------------------------------------------------------------------------------------------------------------|------|------|
| 2118 | Maple Leaf 34% Protein Expeller. Canada Linseed Oil Mills, Ltd., Montreal, Canada. Sampled at Hatheway & Steane Corp., West Suffield. | 6.16 | 5.44 |
|------|---------------------------------------------------------------------------------------------------------------------------------------|------|------|

~~~~~ Indicates deficiencies.

/ Unregistered.

TABLE 1.

ANALYSES OF MATERIALS SUPPLYING CHIEFLY NITROGEN

| Station
No. | Manufacturer or jobber and dealer | Per cent
nitrogen | |
|----------------|--|----------------------|-------|
| | | F | G |
| 2130 | Sherwin-Williams 32% (Solvent Extracted). Sherwin-Williams Co., Cleveland, Ohio. Sampled at General Cigar Co., Inc., Simsbury. | 5.40 | 5.12 |
| 2133 | Sherwin-Williams 32% (Solvent Extracted). Sherwin-Williams Co., Cleveland, Ohio. Sampled at General Cigar Co., Inc., Granby. | 5.42 | 5.12 |
| SOYBEAN MEAL | | | |
| 2141 | 44% Protein Solvent Extracted. Delphos Grain & Soya Products Co., Delphos, Ohio. Sampled at Hartman Tobacco Corp., Bloomfield. | 7.08 | 7.04 |
| MISCELLANEOUS | | | |
| 2468 | Agrinite Plant Food. American Agricultural Chemical Co., N. Y., N. Y. Sampled at Plantland on the Parkway, Buckland. | 7.12 | 7.00 |
| 2962 | Brookside's Dried Blood. Brookside Nurseries, Inc., Darien, Conn. Sampled at Brookside Nurseries, Inc., Darien. | 12.50 | 12.50 |
| 2963 | Brookside's Horn Shavings or Meal. Brookside Nurseries, Inc., Darien, Conn. Sampled at Brookside Nurseries, Inc., Darien. | 14.32 | 14.00 |
| 2989 | Cascio's Organite. Peter Cascio Nursery, Inc., West Hartford, Conn. Sampled at Peter Cascio Nursery, Inc., West Hartford. | 7.00 | 7.00 |
| 2842 | Dried Blood. Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at A. N. Pierson, Inc., Cromwell. | 9.28 | |
| 2806 | Fairlawn 100% Organic Lawn Food. Blackstone Guano Co., Inc., Blackstone, Va. Sampled at E. J. Korvette, Inc., Trumbull. | 10.00 | 10.00 |

TABLE 1.

ANALYSES OF MATERIALS SUPPLYING CHIEFLY NITROGEN

| Station
No. | Manufacturer or jobber and dealer | Per cent
nitrogen | |
|----------------|--|----------------------|-------|
| | | F | G |
| 2286* | Heller Gro Makes Lawns Green Liquid Fertilizer. Boyle-Midway, Inc., Cranford, N.J. Sampled at Barker's, Wallingford. | 32.80 | 32.00 |
| 2910 | Nitroform. Hercules Powder Co., Wilmington, Del. Sampled at Hubbard-Hall Chemical Co., Portland. | 38.08 | 38.00 |
| 2459 | Scotts Bonus. O.M. Scott & Sons Co., Marysville, Ohio. Sampled at McArdle's Seed Co., Greenwich. | 25.28 | 25.00 |
| 2840 | Viking Ship Brand Calcium Nitrate. Norsk Hydro, Oslo, Norway. Sampled at A. N. Pierson, Inc., Cromwell. | <u>15.10</u> | 15.50 |

~~~~~ Indicates deficiencies.

\* Small package sample.

TABLE 2.

## ANALYSES OF SUPERPHOSPHATE, ETC.

| Station<br>No.        | Manufacturer or jobber and dealer                                                                                                           |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SUPERPHOSPHATE</b> |                                                                                                                                             |
| 2425 <sup>1</sup>     | Agri-Phos. American Agricultural Chemical Co., New York, New York. Sampled at Fairfield State Hospital, Newtown.                            |
| 2769                  | Agri-Phos. American Agricultural Chemical Co., New York, New York. Sampled at Checkerboard Feed Store, New Milford.                         |
| 2879 <sup>1</sup>     | Agri-Phos. American Agricultural Chemical Co., New York, New York. Sampled at Connecticut State Prison, Osborne Div., Hazardville.          |
| 2423 <sup>1</sup>     | Armour Big Crop. Armour Agricultural Chemical Co., Carteret, N.J. Sampled at Southbury Training School, Southbury.                          |
| 2709 <sup>1</sup>     | Armour Big Crop. Armour Agricultural Chemical Co., Carteret, N.J. Sampled at University of Conn., Farm Dept., Storrs.                       |
| 2229 <sup>1</sup>     | Corenco. Consolidated Rendering Co., Boston, Mass. Sampled at Norwich State Hospital, Norwich.                                              |
| 2510                  | Corenco Granulated. Consolidated Rendering Co., Boston, Mass. Sampled at Checkerboard Feed Store, Willimantic.                              |
| 2669                  | Davco Granulated. W. R. Grace & Co., Davison Chemical Div., Baltimore, Md. Sampled at Checkerboard Distributing Warehouse, Torrington.      |
| 2125                  | Davco Granulated Triple. W. R. Grace & Co., Davison Chemical Div., Bartow, Fla. Sampled at General Cigar Co., Inc., Cullbro Div., Simsbury. |
| 2134                  | Davco Granulated Triple. W. R. Grace & Co., Davison Chemical Div., Bartow, Fla. Sampled at General Cigar Co., Inc., Cullbro Div., Granby.   |
| 2152                  | Davco Granulated Triple. W. R. Grace & Co., Davison Chemical Div., Bartow, Fla. Sampled at Hartman Tobacco Corp., Bloomfield.               |

<sup>1</sup> State purchase.



TABLE 2.  
ANALYSES OF SUPERPHOSPHATE, ETC.

| Citrate<br>insoluble | Per cent phosphoric acid |              |       |
|----------------------|--------------------------|--------------|-------|
|                      | Total                    | "Available"  |       |
|                      |                          | F            | G     |
| 0.79                 | 21.29                    | 20.50        | 20.00 |
| 1.04                 | 21.22                    | 20.18        | 20.00 |
| 0.78                 | 21.43                    | 20.65        | 20.00 |
| 0.68                 | 20.23                    | <u>19.55</u> | 20.00 |
| 0.23                 | 19.69                    | <u>19.46</u> | 20.00 |
| 0.16                 | 20.84                    | 20.68        | 20.00 |
| 0.87                 | 21.50                    | 20.63        | 20.00 |
| 0.76                 | 21.05                    | 20.29        | 20.00 |
| 2.30                 | 47.58                    | <u>45.28</u> | 46.00 |
| 2.30                 | 47.77                    | <u>45.47</u> | 46.00 |
| 2.16                 | 47.32                    | <u>45.16</u> | 46.00 |

~~~~~ Indicates deficiencies.

TABLE 2.

ANALYSES OF SUPERPHOSPHATE, ETC.

| Station
No. | Manufacturer or jobber and dealer |
|----------------------|--|
| 3060 | Eastern States Granular. Agway, Syracuse, New York.
Sampled at Eastern States Farmers' Exchange, Inc.,
Willimantic. |
| 2282 ¹ | Granular Triple. Hubbard-Hall Chemical Co., Water-
bury, Conn. Sampled at State Highway Dept., Portland. |
| 3054 | Granular Triple. Hubbard-Hall Chemical Co., Water-
bury, Conn. Sampled at Hubbard-Hall Chemical Co.,
Portland. |
| 2362 | Granulated. Hubbard-Hall Chemical Co., Waterbury,
Conn. Sampled at Putnam Big Y Grain Co., Putnam. |
| 2883 | Old Fox Agricultural Sales, Inc., East Providence, R.I.
Sampled at Old Fox Agricultural Sales, Inc.,
Hazardville. |
| DI-CALCIUM PHOSPHATE | |
| | |
| | |
| 2121 | Eastman Gelatine Corp., Peabody, Mass. Sampled at
Hatheway & Steane Corp., West Suffield. |
| 2135 | Eastman Gelatine Corp., Peabody, Mass. Sampled at
General Cigar Co., Inc., Cullbro Div., Granby. |
| PHOSPHATE ROCK | |
| | |
| | |
| 2466 | AA Quality Ground Florida Pebble. American Agricultural
Chemical Co., Peiree, Fla. Sampled at McArdle's
Seed Co., Greenwich. |
| 3022 | Ground Undissolved. Baugh & Sons Co., Baltimore, Md.
Sampled at Hubbard-Hall Chemical Co., Portland. |

¹ State purchase.

~~~~~ Indicates deficiencies.

TABLE 2.  
ANALYSES OF SUPERPHOSPHATE, ETC.

| Citrate<br>insoluble | Per cent phosphoric acid |             |       |
|----------------------|--------------------------|-------------|-------|
|                      | Total                    | "Available" |       |
|                      |                          | F           | G     |
| 0.19                 | 20.90                    | 20.81       | 20.00 |
| 1.15                 | 47.59                    | 46.44       | ..... |
| 1.97                 | 48.08                    | 46.11       | 46.00 |
| 0.85                 | 21.39                    | 20.54       | 20.00 |
| 0.30                 | 20.42                    | 20.12       | 20.00 |
|                      | 43.28                    |             |       |
|                      | 42.42                    |             |       |
| 26.03                | 31.33 <sup>2</sup>       | 5.30        | 3.00  |
|                      | 33.80 <sup>3</sup>       |             |       |

<sup>2</sup> Guaranteed: 31.00%.

<sup>3</sup> Guaranteed: 33.50%.

TABLE 3.  
ANALYSES OF POTASH SALTS, ETC.

| Station<br>No.              | Manufacturer or jobber and dealer                                                                                                      | Per cent<br>potash |       |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------|
|                             |                                                                                                                                        | F                  | G     |
| MURIATE OF POTASH           |                                                                                                                                        |                    |       |
| 2713 <sup>1</sup>           | Consolidated Rendering Co., Boston,<br>Mass. Sampled at Univ. of Conn.,<br>Agronomy Farm, Storrs.                                      | <u>59.44</u>       | 60.00 |
| 2918                        | Hubbard-Hall Chemical Co., Waterbury,<br>Conn. Sampled at Hubbard-Hall Chemi-<br>calCo., Portland.                                     | 60.44              | 60.00 |
| 2657                        | International Minerals & Chemical Corp.,<br>Skokie, Ill. Sampled at Eastern States<br>Farmers' Exchange, Inc., Torrington.             | 62.48              | 60.00 |
| 2878 <sup>1</sup>           | Old Fox Agricultural Sales, Inc., East<br>Providence, R.I. Sampled at Conn.<br>State Prison, Osborne Div., Hazardville.                | <u>59.32</u>       | 60.00 |
| NITRATE OF POTASH           |                                                                                                                                        |                    |       |
| 2124                        | Irsobin (Made in W. Germany). Hubbard-<br>Hall Chemical Co., Waterbury, Conn.<br>Sampled at Hatheway & Steane Corp.,<br>West Suffield. | 46.16              | ..... |
| NITRATE OF SODA-POTASH      |                                                                                                                                        |                    |       |
| 2844 <sup>2</sup>           | Chilean Champion Brand. Chilean Ni-<br>trate Sales Corp., N.Y., N.Y. Sam-<br>pled at A.N. Pierson, Inc., Cromwell.                     | 14.08              | 14.00 |
| SULPHATE OF POTASH-MAGNESIA |                                                                                                                                        |                    |       |
| 2151 <sup>3</sup>           | Sul-Po-Mag. International Minerals &<br>Chemical Corp., Skokie, Ill. Sampled<br>at Hartman Tobacco Corp., Bloomfield.                  | 23.24              | 21.00 |

~~~~~ Indicates deficiencies.

¹ State purchase.

² Nitrogen: Guaranteed, 15.00%; found, 15.00%.
Sodium: Guaranteed, 18.00%; found, 17.99%.

³ Magnesium: Guaranteed, 11.00%; found, 13.11%.

TABLE 3.
ANALYSES OF POTASH SALTS, ETC.

| Station
No. | Manufacturer or jobber and dealer | Per cent
potash | |
|-------------------|--|--------------------|-------|
| | | F | G |
| COTTON HULL ASHES | | | |
| 2122 | Hubbard-Hall Chemical Co., Waterbury,
Conn. Sampled at Hatheway & Steane
Corp., West Suffield. | 37.88 | |
| 2126 | Hubbard-Hall Chemical Co., Waterbury,
Conn. Sampled at General Cigar Co.,
Inc., Culbro Div., Simsbury. | 35.12 | |
| 2149 | Hubbard-Hall Chemical Co., Waterbury,
Conn. Sampled at Hartman Tobacco
Corp., Bloomfield. | 40.12 | |

TABLE 4.

ANALYSES OF GROUND FISH, BONE, ETC.

| Station
No. | Manufacturer or jobber and dealer |
|-----------------|---|
| DRY GROUND FISH | |
| | |
| | |
| | |
| | |
| 2120 | Hubbard-Hall Chemical Co., Waterbury, Conn.
Sampled at Hatheway & Steane Corp., West Suffield. |
| 2131 | Hubbard-Hall Chemical Co., Waterbury, Conn.
Sampled at General Cigar Co., Inc., Simsbury. |
| 2132 | Hubbard-Hall Chemical Co., Waterbury, Conn.
Sampled at General Cigar Co., Inc., Granby. |
| 2150 | Hubbard-Hall Chemical Co., Waterbury, Conn.
Sampled at Hartman Tobacco Corp., Bloomfield. |
| BONE MEAL | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| 2295 | Armour Agricultural Chemical Co., Atlanta, Ga.
Sampled at Alexander's Garden Center, Milford. |
| 2368 | Baugh Chemical Co., Philadelphia, Pa. Sampled at
Louis Perillo Coal Co., Inc. Southington. |
| 2626 | Baugh Chemical Co., Philadelphia, Pa. Sampled at
Grand-Way, West Haven. |
| 2388 | Bishop Processing Co., Bishop, Md. Sampled at
A. S. Labieniec, Kensington. |
| 2961 | Brookside Nurseries, Inc., Darien, Conn. Sampled
at Brookside Nurseries, Inc., Darien. |
| 2228* | Consolidated Rendering Co., Boston, Mass. Sampled
at Norwich State Hospital, Norwich. |
| 2627* | Consolidated Rendering Co., Boston, Mass. Sampled
at Connecticut Valley Hospital, Middletown. |
| 2946 | Consolidated Rendering Co., Boston, Mass. Sampled
at Essex Hardware Co., Centerbrook. |
| 3007 | Consolidated Rendering Co., Boston, Mass. Sampled
at H. L. Oppenheimer & Sons, West Suffield. |

*State purchase.

~~~~~ Indicates deficiencies.

TABLE 4.

## ANALYSES OF GROUND FISH, BONE, ETC.

| Total Nitrogen<br>(Per cent) |       | Total Phosphoric Acid<br>(Per cent) |       | Mechanical analysis<br>(Per cent) |        |
|------------------------------|-------|-------------------------------------|-------|-----------------------------------|--------|
| F                            | G     | F                                   | G     | Fine                              | Coarse |
| 10.56                        | 10.00 | 6.71                                | 5.00  |                                   |        |
| 11.04                        | 10.00 | 6.10                                | 5.00  |                                   |        |
| 10.60                        | 10.00 | 5.70                                | 5.00  |                                   |        |
| 10.64                        | 10.00 | 6.22                                | 5.00  |                                   |        |
| 2.32                         | 2.30  | 26.85                               | 23.00 | 59.0                              | 41.0   |
| 1.40                         | 1.00  | 31.38                               | 30.00 | 67.0                              | 33.0   |
| 2.20                         | 1.00  | 27.41 <sup>1</sup>                  | ..... | 67.0                              | 33.0   |
| <u>2.28</u>                  | 2.47  | 26.76                               | 23.00 | 57.0                              | 43.0   |
| ....                         | ....  | 31.56                               | 30.00 | 57.0                              | 43.0   |
| 3.24                         | 2.30  | <u>24.18</u>                        | 26.00 | 50.0                              | 50.0   |
| 2.68                         | 2.00  | 25.56                               | 22.00 | 68.0                              | 32.0   |
| 2.64                         | 2.00  | 22.85 <sup>2</sup>                  | 22.00 | 59.0                              | 41.0   |
| <u>2.10</u>                  | 2.30  | 28.16                               | 26.00 | 58.0                              | 42.0   |

<sup>1</sup>"Available" phosphoric acid: Guaranteed, 30.00%; found, 18.03%.

<sup>2</sup>"Available" phosphoric acid: Guaranteed, 15.00%; found, 13.42%.

TABLE 4.

## ANALYSES OF GROUND FISH, BONE, ETC.

| Station<br>No. | Manufacturer or jobber and dealer                                                                       |
|----------------|---------------------------------------------------------------------------------------------------------|
| 2722           | Faesy & Besthoff, Inc., Edgewater, N.J. Sampled at<br>Leon Ezzell Inc., Stamford.                       |
| 2982           | Faesy & Besthoff, Inc., Edgewater, N.J. Sampled at<br>Torizzo Nursery & Garden Shop, West Hartford.     |
| 2415           | Goulard & Olena, Inc., Skillman, N.J. Sampled at<br>Renzulli Brothers Garden Center, Norwalk.           |
| 2513           | A. H. Hoffman, Inc., Landisville, Pa. Sampled at<br>Barker's, Inc., Willimantic.                        |
| 2890           | A. H. Hoffman, Inc., Landisville, Pa. Sampled at<br>S. S. Kresge Co., Thompsonville.                    |
| 2479           | Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled<br>at Treeland on the Turnpike, Manchester.         |
| 2977           | International Minerals & Chemical Corp., Skokie, Ill.<br>Sampled at Garden Center, Inc., West Hartford. |
| 2937           | Sears, Roebuck & Co., Chicago, Ill. Sampled at<br>Sears, Roebuck & Co., New London.                     |
| 2980           | Sears, Roebuck & Co., Chicago, Ill. Sampled at<br>Sears, Roebuck & Co., West Hartford.                  |
| 2347           | Swift & Co., AgriChem Div., Houston, Texas.<br>Sampled at Sabre's Inc., Orange.                         |

## DIAMMONIUM PHOSPHATE

|      |                                                                                                |
|------|------------------------------------------------------------------------------------------------|
| 3030 | Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled<br>at Hubbard-Hall Chemical Co., Portland. |
|------|------------------------------------------------------------------------------------------------|

## MILORGANITE

|      |                                                                                                            |
|------|------------------------------------------------------------------------------------------------------------|
| 2159 | Sewerage Commission of the City of Milwaukee, Milwaukee,<br>Wisc. Sampled at Hamden Garden Center, Hamden. |
|------|------------------------------------------------------------------------------------------------------------|

~~~~~ Indicates deficiencies.

³"Available" phosphoric acid: Guaranteed, 11.69%; found, 19.27%.

⁴"Available" phosphoric acid: Guaranteed, 11.69%; found, 24.20%.

⁵"Available" phosphoric acid: Guaranteed, 23.00%; found, 21.37%.

TABLE 4.

ANALYSES OF GROUND FISH, BONE, ETC.

| Total Nitrogen
(Per cent) | | Total Phosphoric Acid
(Per cent) | | Mechanical analysis
(Per cent) | |
|------------------------------|-------|-------------------------------------|-------|-----------------------------------|--------|
| F | G | F | G | Fine | Coarse |
| 1.22 | 1.00 | 32.52 ³ | 23.00 | 55.0 | 45.0 |
| 2.60 | 2.47 | 26.36 ⁴ | 23.00 | 75.0 | 25.0 |
| 1.64 | 1.00 | 32.03 ⁵ | | 65.0 | 35.0 |
| 2.00 | 2.00 | 25.98 | 17.00 | 57.0 | 43.0 |
| 4.46 | 2.00 | 23.59 | 17.00 | 42.0 | 58.0 |
| 2.44 | 2.00 | 26.45 | 23.00 | 57.0 | 43.0 |
| 2.48 | 2.47 | 26.28 ⁶ | 23.00 | 50.0 | 50.0 |
| 2.00 | 2.00 | 31.09 ⁷ | 23.00 | 58.0 | 42.0 |
| 2.86 | 2.00 | 24.54 ⁸ | 23.00 | 58.0 | 42.0 |
| <u>2.40</u> | 2.47 | 27.08 | 23.00 | 69.0 | 31.0 |
| <u>16.72</u> | 18.00 | 43.13 ⁹ | | | |
| 6.40 | 5.50 | 5.06 ¹⁰ | 3.50 | | |

⁶ "Available" phosphoric acid: Guaranteed, 11.00%; found, 13.94%.

⁷ "Available" phosphoric acid: Guaranteed, 16.00%; found, 18.67%.

⁸ "Available" phosphoric acid: Guaranteed, 16.00%; found, 21.91%.

⁹ "Available" phosphoric acid: Guaranteed, 46.00%; found, 42.33%.

¹⁰ "Available" phosphoric acid: Guaranteed, 3.00%; found, 4.50%.
Iron: Guaranteed, 3.00%; found, 4.24%.

TABLE 5.
ANALYSES OF MIXED FERTILIZERS

| Station
No. | Ratio, grade and brand | |
|--------------------|------------------------|--|
| | <u>0- 1- 1</u> | |
| 2630/ ¹ | 0-20-20 | AA Quality Fertilizer (20 lbs. Borax/Ton) |
| 3055 | 0-20-20 | Corenco Fertilizer |
| 2671 | 0-20-20 | Davco 3-G Granulated Fertilizer |
| 2489 | 0-20-20 | Liberty Fertilizer |
| | <u>0- 1- 2</u> | |
| 2421 ¹ | 0-15-30 | AA Quality Fertilizer (20 lbs. Borax/Ton) |
| 2426 ¹ | 0-15-30 | AA Quality Fertilizer (20 lbs. Borax/Ton) |
| 2609 | 0-15-30 | Corenco Fertilizer |
| 2768 | 0-15-30 | Davco 3-G Granulated Fertilizer |
| 3032 | 0-15-30 | Liberty Fertilizer |
| 2360 | 0-15-30 | Old Fox Fertilizer |
| | <u>0- 1- 3</u> | |
| 2766 | 0-10-30 | Davco 3-G Granulated Fertilizer |
| 2245 | 0-10-30 | Eastern States with 0.3 Boron |
| | <u>1- 1- 1</u> | |
| 2960 | 4- 4- 4 | Brookside's Nature's Thrift |
| 3069* | 5- 5- 5 | Chemton Liquid Plant Food |
| 2231 | 5- 5- 5 | Cross Country Organic Lawn Food |
| 2604 | 7- 7- 7 | AA Quality Fertilizer |
| 2788 | 7- 7- 7 | Corenco Granulated Form Fertilizer |
| 2614 | 7- 7- 7 | Corenco Rhododendron-Azalea & Blueberry
Special |
| 2874 ² | 7- 7- 7 | F & B Evergreen Food |
| 2901* | 7- 7- 7 | Hart's Rose Food |
| 2894 | 7- 7- 7 | Lebanon Rose Food |
| 3053 | 7- 7- 7 | Liberty Fertilizer |
| 2996 | 7- 7- 7 | Old Fox Fertilizer |
| 2954 | 7- 7- 7 | Professional Tree & Shrub Food-30% Organic |
| 2371 | 8- 8- 8 | Agrico Rose Food |
| 2957 | 8- 8- 8 | Brookside's Nature's Nutrients |
| 2514* | 8- 8- 8 | Du Pont Rose Food |
| 2396 ³ | 8- 8- 8 | Miller Azalea Food with 0.12 Mg |
| 2369 | 10-10-10 | AA Quality Fertilizer |
| 2714 ¹ | 10-10-10 | AA Quality Fertilizer (10 lbs. Borax/Ton) |
| 2789 | 10-10-10 | Corenco Granular Form Fertilizer |
| 2770 | 10-10-10 | Davco 3-G Granulated Fertilizer |
| 2439 | 10-10-10 | Eastern States with 0.60 Mg |
| 2283 ¹ | 10-10-10 | HH 50% Organic 25% Natural Organic |
| 2366 ¹ | 10-10-10 | Liberty Fertilizer |

* Small package sample.

/ Unregistered.

² Iron: Guaranteed, 0.15%; found, 2.21%.

TABLE 5.

ANALYSES OF MIXED FERTILIZERS

| Mfr.
No. | Per cent
organic
nitrogen | | Per cent
total
nitrogen | Per cent
available
phosphoric
acid | Per cent
water-
soluble
potash | Per cent
magnesium |
|-------------|---------------------------------|--------|-------------------------------|---|---|-----------------------|
| | Sol. | Insol. | | | | |
| 6 | 0.00 | 0.10 | 1.36 | <u>18.18</u> | 20.04 | ---- |
| 36 | ---- | ---- | ---- | <u>19.78</u> | <u>18.18</u> | ---- |
| 65 | ---- | ---- | ---- | <u>17.55</u> | <u>23.93</u> | ---- |
| 80 | ---- | ---- | ---- | <u>20.13</u> | 20.16 | ---- |
| 6 | ---- | ---- | ---- | <u>14.34</u> | 31.94 | ---- |
| 6 | ---- | ---- | ---- | <u>15.29</u> | 31.18 | ---- |
| 36 | ---- | ---- | ---- | 15.41 | <u>26.81</u> | ---- |
| 65 | ---- | ---- | ---- | 17.59 | <u>32.20</u> | ---- |
| 80 | ---- | ---- | ---- | <u>14.13</u> | 33.49 | ---- |
| 99 | ---- | ---- | ---- | <u>12.70</u> | 32.84 | ---- |
| 65 | ---- | ---- | ---- | 9.91 | 33.79 | ---- |
| 3 | ---- | ---- | ---- | 10.95 | 30.33 | ---- |
| 24 | 0.34 | 4.06 | 4.40 | 5.01 | <u>3.50</u> | ---- |
| 73 | 4.00 | 0.00 | 5.20 | 5.12 | 5.01 | ---- |
| 116 | 0.38 | 5.10 | 5.64 | 7.72 | ---- | ---- |
| 6 | 0.16 | 0.14 | <u>5.48</u> | 9.47 | 10.10 | ---- |
| 36 | 0.40 | 0.00 | <u>6.76</u> | 8.05 | 7.48 | ---- |
| 36 | 0.08 | 0.24 | 7.00 | 7.58 | 7.09 | ---- |
| 50 | 0.48 | 1.68 | 7.76 | 8.54 | 7.20 | ---- |
| 74 | 1.14 | 1.02 | <u>6.40</u> | 9.09 | 7.24 | ---- |
| 87 | 0.96 | 1.76 | <u>7.84</u> | 7.22 | 8.36 | ---- |
| 80 | 1.32 | 0.24 | 7.24 | 7.27 | 7.45 | ---- |
| 99 | 1.04 | 0.12 | 7.32 | 7.34 | 7.05 | ---- |
| 110 | 1.52 | 1.34 | <u>6.80</u> | <u>5.92</u> | 7.64 | ---- |
| 6 | 1.46 | 0.62 | <u>8.56</u> | <u>8.11</u> | 8.53 | ---- |
| 24 | 1.52 | 5.92 | 8.16 | 9.92 | 6.15 | ---- |
| 42 | 1.84 | 6.02 | 8.18 | 8.36 | 9.64 | ---- |
| 93 | 0.28 | 0.28 | <u>7.60</u> | 8.16 | 9.61 | 0.47 |
| 6 | 0.16 | 0.51 | <u>10.24</u> | 9.90 | <u>2.38</u> | ---- |
| 6 | 0.32 | 0.14 | 10.00 | 10.09 | 10.28 | ---- |
| 36 | 0.24 | 0.00 | 10.00 | 10.71 | 10.25 | ---- |
| 65 | 0.38 | 0.00 | <u>2.66</u> | <u>2.57</u> | 10.10 | ---- |
| 3 | 0.56 | 0.00 | 10.24 | <u>10.38</u> | 10.72 | 1.13 |
| 80 | 2.40 | 2.48 | 10.80 | 9.97 | 10.79 | ---- |
| 80 | 0.42 | 0.00 | <u>2.86</u> | 9.86 | 10.23 | ---- |

~~~~~ Indicates deficiencies.

<sup>1</sup> State purchase.<sup>3</sup> Iron: Guaranteed, 0.44%; found, 0.25%.

Manganese: Guaranteed, 0.15%; found, 0.17%.

TABLE 5.

## ANALYSES OF MIXED FERTILIZERS

| Station<br>No.     | Ratio, grade and brand |                                                |
|--------------------|------------------------|------------------------------------------------|
| 2463               | 10-10-10               | Liberty Fertilizer                             |
| 2845 <sup>1</sup>  | 10-10-10               | Liberty Fertilizer                             |
| 2877 <sup>1</sup>  | 10-10-10               | Liberty Fertilizer                             |
| 2356               | 10-10-10               | Old Fox Fertilizer                             |
| 2483 <sup>/1</sup> | 10-10-10               | State of Connecticut                           |
| 2629 <sup>/1</sup> | 10-10-10               | State of Connecticut (10 lbs. Borax/Ton)       |
| 2222               | 12-12-12               | Eastern States Granular Fertilizer with 1.2 Mg |
| 2729               | 13-13-13               | Mathieson Ammo-Phos with Potash                |
| 2224               | 15-15-15               | Eastern States Super Formula                   |
| 2711 <sup>1</sup>  | 15-15-15               | Liberty Fertilizer                             |
| 2925               | 15-15-15               | Liberty Fertilizer                             |
| 2737               | 15-15-15               | Peter's Geranium Special                       |
| 2905               | 18-18-18               | Fer-Mel General Purpose Plant Food             |
| 2202*              | 20-20-20               | Cross Country Instant Rose Food                |
| 2748 <sup>4</sup>  | 20-20-20               | Greenfield Instant Plant Food-trace elements   |
| 2734               | 20-20-20               | Peter's General Purpose                        |
|                    | <u>1- 2- 1</u>         |                                                |
| 2170*              | 4- 8- 4                | Hy-Trous                                       |
| 2460               | 5-10- 5                | AA Quality Fertilizer with 1.2 Mg              |
| 2297               | 5-10- 5                | Armour Big Crop Fertilizer                     |
| 3093               | 5-10- 5                | Armour Home & Garden Special                   |
| 2446               | 5-10- 5                | Armour Vertagreen for Lawn & Garden            |
| 3092               | 5-10- 5                | Armour Vertagreen Plant Food with 2, 4-D       |
| 3095               | 5-10- 5                | Armour Vertagreen Rose Food                    |
| 2781               | 5-10- 5                | Blue Ribbon Lawn & Garden Fertilizer           |
| 2965               | 5-10- 5                | C & J Homogeneous Granulated Fertilizer        |
| 2633               | 5-10- 5                | C & J Plant Food                               |
| 2349               | 5-10- 5                | Corenco Fertilizer                             |
| 2661 <sup>1</sup>  | 5-10- 5                | Corenco Granular Form Fertilizer               |
| 2875               | 5-10- 5                | Corenco Home Garden & Lawn Starter             |
| 2615               | 5-10- 5                | Corenco Rose Food                              |
| 2981*              | 5-10- 5                | Cross Country Plant Food                       |
| 2757               | 5-10- 5                | Davco 3-G Granulated Fertilizer                |
| 2300               | 5-10- 5                | Deerfield Plant Food                           |
| 2200               | 5-10- 5                | Economy Fertilizer                             |
| 2260*              | 5-10- 5                | F & B Garden Food                              |
| 2837               | 5-10- 5                | F & B Garden Food                              |
| 2978               | 5-10- 5                | Fertilis                                       |
| 2955               | 5-10- 5                | G & O Prizegro for Gardens                     |
| 3015               | 5-10- 5                | Gold Seal Plant Food                           |
| 2716               | 5-10- 5                | Green Ribbon Plant Food                        |
| 2786               | 5-10- 5                | Gro Fast Plant Food                            |
| 2896               | 5-10- 5                | Hart's All Purpose Plant Food                  |
| 2482*              | 5-10- 5                | HH Plant Food                                  |

\* Small package sample.

/ Unregistered.

~~~~~ Indicates deficiencies.

¹ State purchase.

TABLE 5.

ANALYSES OF MIXED FERTILIZERS

| Mfr.
No. | Per cent
organic
nitrogen | | Per cent
total
nitrogen | Per cent
available
phosphoric
acid | Per cent
water-
soluble
potash | Per cent
magnesium |
|-------------|---------------------------------|--------|-------------------------------|---|---|-----------------------|
| | Sol. | Insol. | | | | |
| 80 | 0.54 | 0.26 | 9.24 | 10.05 | 11.42 | ---- |
| 80 | ---- | 2.56 | <u>9.60</u> | 10.13 | <u>9.65</u> | ---- |
| 80 | 0.32 | 0.00 | 9.60 | 15.46 | 10.00 | ---- |
| 99 | 0.00 | 0.10 | <u>9.44</u> | <u>9.63</u> | 11.44 | ---- |
| 80 | 2.00 | 2.74 | <u>9.20</u> | <u>9.34</u> | 10.34 | ---- |
| 80 | 2.40 | 0.10 | <u>9.72</u> | 10.16 | 10.19 | ---- |
| 3 | 0.80 | 0.10 | 12.00 | 12.84 | <u>11.74</u> | 1.52 |
| 100 | 0.64 | 0.00 | 13.28 | 13.02 | 13.80 | ---- |
| 3 | 0.80 | 0.08 | 15.04 | 15.85 | 15.88 | ---- |
| 80 | 0.52 | 0.10 | <u>13.68</u> | <u>12.85</u> | 15.62 | ---- |
| 80 | 0.16 | 0.17 | <u>13.84</u> | 16.32 | 17.58 | ---- |
| 106 | 5.76 | 0.00 | <u>17.52</u> | 16.86 | 17.22 | ---- |
| 91 | 12.64 | 0.00 | 18.00 | 18.93 | 20.16 | ---- |
| 116 | 14.40 | 0.00 | 20.48 | <u>19.21</u> | 20.22 | ---- |
| 45 | 8.80 | 0.00 | <u>19.84</u> | <u>20.32</u> | 20.75 | ---- |
| 106 | 10.24 | 0.00 | <u>20.80</u> | 19.90 | 20.44 | ---- |
| | | | | | | |
| 81 | 0.96 | 0.00 | 4.52 | 8.50 | 4.08 | ---- |
| 6 | 0.48 | 0.14 | 5.12 | 10.23 | 5.50 | 1.48 |
| 12 | 2.20 | 0.10 | <u>4.88</u> | 10.45 | 5.29 | ---- |
| 12 | 0.00 | 0.00 | <u>5.32</u> | 10.06 | 5.00 | ---- |
| 12 | 0.40 | 0.08 | 5.12 | <u>9.71</u> | 5.33 | ---- |
| 12 | 0.24 | 0.10 | 5.00 | <u>9.69</u> | 5.58 | ---- |
| 12 | 0.56 | 1.08 | 6.08 | 10.10 | 5.97 | ---- |
| 1 | 0.08 | 0.40 | 5.92 | <u>9.41</u> | 6.26 | ---- |
| 26 | 1.84 | 0.12 | 5.00 | <u>9.95</u> | 5.69 | ---- |
| 26 | 0.24 | 0.14 | 6.36 | 10.88 | 6.26 | ---- |
| 36 | 0.00 | 0.08 | 5.24 | 10.39 | 5.30 | ---- |
| 36 | 0.16 | 0.00 | 5.04 | 10.24 | 5.45 | ---- |
| 36 | 0.24 | 0.46 | 5.28 | 9.89 | 5.46 | ---- |
| 36 | 1.28 | 0.98 | 5.40 | 11.43 | 7.47 | ---- |
| 116 | 1.92 | 0.16 | 6.16 | <u>9.56</u> | 5.49 | ---- |
| 65 | 0.24 | 0.00 | 5.36 | 11.06 | 6.84 | ---- |
| 98 | 2.60 | 0.18 | 5.44 | 10.12 | 5.11 | ---- |
| 116 | 1.36 | 0.18 | 6.04 | 9.85 | 5.74 | ---- |
| 50 | 0.32 | 2.26 | <u>4.76</u> | 10.02 | 5.51 | ---- |
| 50 | 0.24 | 1.72 | <u>4.88</u> | 11.18 | 7.06 | ---- |
| 83 | 0.16 | 0.00 | <u>5.52</u> | 10.48 | 6.03 | ---- |
| 64 | 0.35 | 0.67 | 5.48 | 10.59 | 5.22 | ---- |
| 8 | 0.72 | 0.18 | 6.00 | 10.46 | 5.54 | ---- |
| 70 | 1.84 | 0.00 | 5.56 | 9.93 | 5.50 | ---- |
| 71 | 1.96 | 0.00 | 5.88 | 9.80 | 5.76 | ---- |
| 74 | 0.56 | 0.16 | 5.68 | 10.01 | 5.06 | ---- |
| 80 | 2.00 | 0.78 | 5.50 | 10.06 | 6.07 | ---- |

⁴ Iron: Guaranteed, 0.105%; found, 0.098%.
 Boron: Guaranteed, 0.026%; found, 0.025%.
 Copper: Guaranteed, 0.051%; found, 0.056%.
 Zinc: Guaranteed, 0.071%; found, 0.060%.
 Molybdenum: Guaranteed, 0.0007%; found, 0.0008%.

TABLE 5.

ANALYSES OF MIXED FERTILIZERS

| Station
No. | Ratio, grade and brand | |
|-------------------|------------------------|---|
| 2950 | 5-10- 5 | HH Plant Food (50% of Nit. is Org.) |
| 3070 | 5-10- 5 | HH Plant Food |
| 2515* | 5-10- 5 | Hoffman Rose Food |
| 2280 | 5-10- 5 | Homestead Farm Style Fertilizer |
| 2733 | 5-10- 5 | Just Right |
| 2719 | 5-10- 5 | Lawn & Garden Food |
| 2474 | 5-10- 5 | Liberty Fertilizer |
| 2511 | 5-10- 5 | Luzerne Plant Food |
| 2512/ | 5-10- 5 | Mr. Turf's Flower & Garden Fertilizer |
| 2355 | 5-10- 5 | Old Fox Garden Food |
| 2623 | 5-10- 5 | Pennsylvania Dutch |
| 2194 | 5-10- 5 | Perk-Up Plant Food |
| 2385* | 5-10- 5 | Perk-Up Plant Food |
| 2418 | 5-10- 5 | Plantation Quality Fertilizer |
| 2807 | 5-10- 5 | Ranch Home |
| 2277 | 5-10- 5 | Swift's Red Steer Brand Plant Food |
| 2665 | 5-10- 5 | Turf & Garden Food |
| 2259 | 5-10- 5 | Turf King Lawn & Garden Fertilizer |
| 2389 | 5-10- 5 | Union Fertilizer |
| 2169* | 6-12- 6 | African Violet Food |
| 2455* | 6-12- 6 | Plant Food (Liquid) |
| 2247 | 8-16- 8 | Agrico Garden & Lawn Fertilizer |
| 2242* | 15-30-15 | Miracle-Gro |
| 2808* | 15-30-15 | Specialty Rose & Shrub Food Pellets |
| 3091* | 16-32-16 | Breck's Quick-Life |
| 2226* | 16-32-16 | Eastern States Start-N-Gro |
| | <u>1- 2- 2</u> | |
| 2227 ¹ | 5-10-10 | AA Quality Fertilizer with 1. 2 Mg |
| 2605 | 5-10-10 | AA Quality Fertilizer with 1. 2 Mg |
| 2710 ¹ | 5-10-10 | AA Quality Fertilizer with 1. 2 Mg |
| 2370 | 5-10-10 | Agrico for Potatoes with 1. 2 Mg |
| 3094 | 5-10-10 | Armour Vertagreen for Acid Loving Plants |
| 3076 | 5-10-10 | Breck's Garden Gro with 1. 2 Mg |
| 2969 | 5-10-10 | C & J Homogeneous Granulated Fertilizer |
| 2192 | 5-10-10 | Corenco Fertilizer |
| 2256 ¹ | 5-10-10 | Corenco Fertilizer |
| 2613 | 5-10-10 | Corenco Fertilizer with 1. 2 Mg |
| 3059 | 5-10-10 | Corenco Fertilizer Concentrate |
| 2772 | 5-10-10 | Davco 3-G Granulated Fertilizer |
| 2655 | 5-10-10 | Eastern States with 1. 8 Mg |
| 2658 | 5-10-10 | Eastern States with 1. 8 Mg for Vegetables,
Flower Gardens and Lawn Est. |
| 2836 | 5-10-10 | F & B Azalea-Camellia-Rhododendron Food |
| 2948 | 5-10-10 | Gro Mor Garden Fertilizer |
| 2284 ¹ | 5-10-10 | Liberty Fertilizer with 1. 2 Mg |

* Small package sample.

/ Unregistered.

TABLE 5.

ANALYSES OF MIXED FERTILIZERS

| Mfr.
No. | Per cent
organic
nitrogen | | Per cent
total
nitrogen | Per cent
available
phosphoric
acid | Per cent
water-
soluble
potash | Per cent
magnesium |
|-------------|---------------------------------|--------|-------------------------------|---|---|-----------------------|
| | Sol. | Insol. | | | | |
| 80 | 1.26 | 1.88 | <u>4.74</u> | 10.48 | 6.46 | ---- |
| 80 | 1.28 | 0.12 | <u>5.08</u> | 10.48 | 6.31 | ---- |
| 78 | 0.08 | 1.34 | 5.96 | 10.64 | 5.58 | ---- |
| 6 | 0.06 | 0.16 | 5.12 | <u>9.64</u> | 5.56 | ---- |
| 72 | 0.96 | 0.38 | 6.08 | <u>9.78</u> | 5.46 | ---- |
| 54 | 0.08 | 0.00 | 5.60 | <u>9.61</u> | <u>4.58</u> | ---- |
| 80 | 1.68 | 0.12 | 5.64 | <u>9.84</u> | <u>6.83</u> | ---- |
| 36 | 0.00 | 0.12 | 5.20 | 10.17 | 5.25 | ---- |
| 85 | 8.00 | 0.16 | 12.22 | <u>7.76</u> | <u>4.53</u> | ---- |
| 99 | 0.00 | 0.00 | 5.24 | <u>9.51</u> | <u>6.41</u> | ---- |
| 87 | 0.48 | 0.32 | 6.00 | 10.67 | 5.42 | ---- |
| 105 | 0.60 | 0.40 | 5.60 | <u>9.77</u> | 5.04 | ---- |
| 105 | 0.76 | 0.24 | 5.84 | 10.33 | 5.75 | ---- |
| 20 | 0.20 | 0.00 | 5.24 | 10.25 | 5.06 | ---- |
| 20 | 0.16 | 0.26 | 5.44 | 9.89 | 5.28 | ---- |
| 129 | 0.08 | 0.10 | 5.04 | 10.27 | 5.60 | ---- |
| 65 | 0.08 | 0.10 | 5.28 | 10.53 | 7.07 | ---- |
| 1 | 0.16 | 0.30 | 6.54 | <u>9.35</u> | 5.59 | ---- |
| 136 | 0.56 | 0.14 | 5.28 | <u>9.84</u> | 5.02 | ---- |
| 113 | 0.48 | 0.56 | 7.36 | 13.95 | 7.22 | ---- |
| 130 | ---- | 0.00 | 5.92 | 18.51 | 5.85 | ---- |
| 6 | 1.66 | 0.86 | 8.44 | 16.77 | 8.30 | ---- |
| 125 | 8.56 | 0.00 | 15.76 | <u>29.74</u> | 16.48 | ---- |
| 122 | 4.14 | 0.18 | 15.44 | 30.60 | 17.56 | ---- |
| 13 | 8.08 | 0.00 | 16.00 | <u>31.57</u> | 16.88 | ---- |
| 3 | 2.24 | 0.00 | 16.56 | <u>32.27</u> | 16.08 | ---- |
| | | | | | | |
| 6 | 0.24 | 0.18 | 5.32 | <u>9.76</u> | <u>9.79</u> | 2.12 |
| 6 | 0.00 | 0.24 | 5.60 | <u>7.57</u> | <u>9.62</u> | ---- |
| 6 | 0.40 | 0.00 | 5.32 | <u>9.40</u> | <u>9.47</u> | 2.26 |
| 6 | 0.16 | 0.16 | 5.44 | 10.31 | 10.83 | 2.42 |
| 12 | 0.64 | 0.54 | 5.64 | 10.42 | 10.45 | ---- |
| 13 | 0.08 | 0.00 | 5.08 | <u>9.66</u> | 11.01 | 1.57 |
| 26 | 0.24 | 0.00 | 6.36 | <u>8.73</u> | <u>8.48</u> | ---- |
| 36 | 0.16 | 0.08 | 5.36 | 10.39 | <u>8.69</u> | ---- |
| 36 | 0.00 | 0.10 | 5.48 | 10.47 | <u>9.79</u> | ---- |
| 36 | 0.00 | 0.14 | 5.52 | 10.08 | <u>9.61</u> | 1.44 |
| 36 | 0.16 | 0.00 | 5.08 | 12.79 | 10.12 | ---- |
| 65 | 0.16 | 0.00 | 5.32 | 9.92 | 10.14 | ---- |
| 3 | 0.56 | 0.00 | 5.16 | 10.01 | 10.27 | 2.72 |
| | | | | | | |
| 3 | 0.40 | 0.10 | 5.40 | 10.13 | 10.76 | 3.32 |
| 50 | 0.24 | 1.54 | <u>4.64</u> | 10.02 | 10.21 | ---- |
| 80 | 1.74 | 0.38 | <u>5.88</u> | 10.80 | <u>8.59</u> | ---- |
| 80 | 1.50 | 0.10 | 5.28 | 10.26 | 10.10 | 2.78 |

~~~~~ Indicates deficiencies.

<sup>1</sup> State purchase.

TABLE 5.  
ANALYSES OF MIXED FERTILIZERS

| Station<br>No.    | Ratio, grade and brand |                                             |
|-------------------|------------------------|---------------------------------------------|
| 2936 <sup>1</sup> | 5-10-10                | Liberty Fertilizer                          |
| 2995              | 5-10-10                | Old Fox Fertilizer with 1.2 Mg              |
| 2291*             | 5-10-10                | Vigoro for African Violets (Liquid)         |
| 2292*             | 5-10-10                | Vigoro Azalea & Camellia Food               |
| 2444 <sup>5</sup> | 5-10-10                | Vigoro Evergreen Food                       |
| 3062              | 5-10-10                | Vitogro Azalea & Camellia Food              |
| 3010 <sup>6</sup> | 5-10-10                | Vitogro Evergreen Food                      |
| 2422 <sup>1</sup> | 8-16-16                | AA Quality Fertilizer                       |
| 2904              | 8-16-16                | Corenco Granular Form Fertilizer            |
| 2667              | 8-16-16                | Davco 3-G Granulated Fertilizer             |
| 2243              | 8-16-16                | Eastern States                              |
| 2660              | 8-16-16                | Eastern States                              |
| 2365 <sup>1</sup> | 8-16-16                | Liberty Fertilizer                          |
| 2998              | 8-16-16                | Old Fox Fertilizer                          |
| 2756              | 10-20-20               | Agrico for Corn                             |
| 2354              | 10-20-20               | Eastern States Super Formula                |
| 3025              | 10-20-20               | Liberty Fertilizer                          |
|                   | <u>2- 1- 1</u>         |                                             |
| 3058              | 10- 5- 5               | Corenco Liquid-Green                        |
| 2244              | 10- 5- 5               | Eastern States Green Lawn with 2.4 Mg       |
| 2438              | 10- 5- 5               | Eastern States Green Lawn with Dacthal & Mg |
| 2833              | 10- 5- 5               | Godfrey's Lawn & Tree Food                  |
| 2172              | 10- 5- 5               | Greenfield Triple Action Crab Grass Killer  |
| 3071              | 10- 5- 5               | HH Luxura                                   |
| 2255 <sup>1</sup> | 10- 5- 5               | Lawn Craft Turf Food (70% Nit. is Org.)     |
| 2927 <sup>1</sup> | 10- 5- 5               | Lawn Craft Turf Food (70% Nit. is Org.)     |
| 3031              | 10- 5- 5               | Lawn Craft Turf Food (70% Nit. is Org.)     |
| 2932*             | 10- 5- 5               | Liquid Vigoro Plant Food for House Plants   |
| 2610/             | 10- 5- 5               | Platt's Hi-Organic Lawn Fertilizer          |
| 2727              | 10- 5- 5               | Policastro's Blue Chip Turf & Tree Food     |
| 2634*             | 10- 5- 5               | Wil-Gro                                     |
| 2484              | 10- 5- 5               | Woodruff's Lawn & Tree Food                 |
| 2178*             | 12- 6- 6               | Ortho-Gro Liquid Plant Food                 |
| 3061              | 16- 8- 8               | Agrico Country Club Fertilizer              |
| 2467              | 16- 8- 8               | Agrico Grass Food                           |
| 2759              | 16- 8- 8               | Agrico for Plow-Down                        |
| 2916              | 16- 8- 8               | Sears Lawn Quick Green                      |
| 2517              | 20-10-10               | Du Pont Turf Food                           |
| 2928              | 20-10-10               | Du Pont Turf Food with 2, 4-D Weed Killer   |
| 2732              | 20-10-10               | Heritage House Lawn Food                    |
| 2854              | 24-12-12               | Fer-Mel Water Soluble Turf & Tree Food      |
|                   | <u>2- 1- 2</u>         |                                             |
| 2404              | 2- 1- 2                | Bovung Dehydrated Cow Manure                |
| 3011              | 4- 2- 4                | Fertrell Super "N"                          |

\* Small package sample.

/ Unregistered.

~~~~~ Indicates deficiencies.

¹ State purchase.

TABLE 5.

ANALYSES OF MIXED FERTILIZERS

| Mfr.
No. | Per cent
organic
nitrogen | | Per cent
total
nitrogen | Per cent
available
phosphoric
acid | Per cent
water-
soluble
potash | Per cent
magnesium |
|-------------|---------------------------------|--------|-------------------------------|---|---|-----------------------|
| | Sol. | Insol. | | | | |
| 80 | 0.58 | 0.26 | 5.24 | 10.06 | 10.34 | ---- |
| 99 | 0.40 | 0.18 | 7.52 | <u>9.70</u> | 10.36 | 1.24 |
| 129 | 0.64 | 0.00 | 5.04 | 10.08 | 9.81 | ---- |
| 129 | 0.24 | 0.20 | 5.12 | 14.90 | 10.07 | ---- |
| 129 | 0.24 | 0.10 | <u>4.76</u> | <u>9.57</u> | 10.57 | ---- |
| 129 | 0.08 | 0.10 | <u>5.00</u> | <u>10.18</u> | 10.20 | ---- |
| 129 | 0.28 | 0.16 | 5.00 | 9.89 | 10.16 | ---- |
| 6 | 0.12 | 0.20 | 8.04 | 16.17 | 16.02 | ---- |
| 36 | 3.28 | 0.00 | 8.16 | <u>15.55</u> | 19.78 | ---- |
| 65 | 0.40 | 0.00 | 8.04 | <u>15.81</u> | 16.02 | ---- |
| 3 | 0.48 | 0.10 | 8.24 | 16.25 | 17.00 | ---- |
| 3 | 0.72 | 0.00 | 8.00 | 16.14 | 16.64 | ---- |
| 80 | 0.16 | 0.00 | <u>6.64</u> | 16.14 | 16.40 | ---- |
| 99 | 0.00 | 0.26 | <u>7.40</u> | <u>11.81</u> | 17.88 | ---- |
| 6 | 0.16 | 0.10 | <u>9.60</u> | <u>20.17</u> | 20.37 | ---- |
| 3 | 0.48 | 0.06 | <u>10.16</u> | <u>19.30</u> | 20.29 | ---- |
| 80 | 0.50 | 0.18 | <u>8.60</u> | <u>18.15</u> | 20.82 | ---- |
| | | | | | | |
| 36 | 7.08 | 0.00 | 10.04 | 6.03 | 5.69 | ---- |
| 3 | 1.84 | 5.56 | 10.40 | 5.41 | 5.54 | 4.82 |
| 3 | 2.04 | 5.96 | 10.56 | 5.14 | 5.02 | <u>1.93</u> |
| 61 | 4.64 | 2.30 | <u>9.68</u> | 5.74 | 5.22 | ---- |
| 45 | 3.44 | 1.26 | <u>10.64</u> | 5.64 | 5.75 | ---- |
| 80 | 6.72 | 1.76 | 10.24 | 6.33 | 5.35 | ---- |
| 80 | 5.20 | 2.32 | 10.32 | 5.76 | 5.60 | ---- |
| 80 | 5.04 | 2.32 | 10.00 | 5.26 | 5.34 | ---- |
| 80 | 4.72 | 1.80 | 10.04 | 7.29 | 5.55 | ---- |
| 129 | 8.08 | 0.00 | 10.08 | 5.13 | 5.20 | ---- |
| 108 | 1.76 | 0.86 | <u>8.56</u> | 5.90 | 5.43 | ---- |
| 109 | 2.66 | 5.18 | <u>10.24</u> | 6.20 | 5.31 | ---- |
| 143 | 9.68 | 0.00 | 10.72 | 5.52 | 5.33 | ---- |
| 80 | 6.08 | 0.96 | 10.00 | 7.30 | 6.81 | ---- |
| 27 | 11.36 | 0.00 | 12.56 | 6.36 | 6.54 | ---- |
| 6 | 0.40 | 0.10 | <u>15.60</u> | 8.49 | 9.31 | ---- |
| 6 | 4.80 | 5.90 | 15.90 | 8.15 | 8.02 | ---- |
| 6 | 0.48 | 0.00 | <u>15.60</u> | 8.45 | 8.78 | ---- |
| 116 | 1.36 | 0.18 | <u>15.04</u> | 8.00 | <u>7.20</u> | ---- |
| 42 | 4.96 | 12.04 | <u>20.16</u> | 10.40 | <u>10.50</u> | ---- |
| 42 | 8.84 | 7.96 | 20.00 | 10.54 | 10.07 | ---- |
| 76 | 17.00 | 2.84 | 24.32 | 12.80 | 12.29 | ---- |
| 91 | 29.44 | 0.00 | 29.44 | 12.56 | 12.27 | ---- |
| | | | | | | |
| 140 | ---- | ---- | 2.40 | 1.27 | 2.36 | ---- |
| 95 | 0.80 | 2.84 | <u>3.64</u> | 2.22 | 4.48 | ---- |

⁵ Iron: Guaranteed, 0.15%; found 0.53%.⁶ Iron: Guaranteed, 0.15%; found 0.66%.

TABLE 5.
ANALYSES OF MIXED FERTILIZERS

| Station
No. | Ratio, grade and brand | |
|--------------------|------------------------|--|
| 2924 | 6- 3- 6 | Liberty Tobacco Fertilizer |
| 2944 | 6- 3- 6 | Liberty Tobacco Fertilizer |
| 2887 | 6- 3- 6 | Old Fox Tobacco Fertilizer |
| 2882 | 6- 3- 6 | Old Fox Tobacco Fertilizer with 1.2 Mg |
| 3026 | 10- 5-10 | Liberty Blueberry Special |
| | <u>2- 3- 3</u> | |
| 2801 | 4- 6- 6 | Espoma Garden-Tone |
| 2611 | 8-12-12 | Corenco Fertilizer with 0.9 Mg |
| 2608 | 10-15-15 | Corenco Granular Form Fertilizer with 1.2 Mg |
| | <u>3- 1- 1</u> | |
| 3073 | 3- 1- 1 | Adorna |
| 2447 | 3- 1- 1 | Davey Arbor Green |
| 2453 | 12- 4- 4 | Davey Tree Food |
| 2983 | 15- 5- 5 | Cascio's Lawn Food & Weed Killer |
| 2452 | 15- 5- 5 | Da-V-Green Lawn Food |
| 2363* | 15- 5- 5 | Ortho-Gro Liquid Plant Food |
| 2298* | 30-10-10 | Stern's Miracid |
| | <u>3- 2- 2</u> | |
| 2767 | 15-10-10 | AA Quality Fertilizer |
| 2632 | 15-10-10 | C & J 7500 Lawn Food |
| 2659 | 15-10-10 | Eastern States |
| 2437 | 15-10-10 | Eastern States Super Formula |
| 2992 | 15-10-10 | Liberty Fertilizer |
| 2888 | 15-10-10 | Old Fox Fertilizer |
| | <u>3- 4- 4</u> | |
| 2612 | 6- 8- 8 | Corenco Fertilizer with 1.2 Mg |
| | <u>3- 5- 2</u> | |
| 2984 | 6-10- 4 | G & O Plant Food for Acid Loving Plants |
| 2953 | 6-10- 4 | Grand Union Brand Lawn & Garden Fertilizer |
| 2798* | 6-10- 4 | Homestead Fertilizer for Acid Loving Plants |
| 2257 | 6-10- 4 | Vigoro All Purpose Complete Plant Food |
| 3018* | 6-10- 4 | Vitogro Garden Grower |
| 3065 | 6-10- 4 | Vitogro Garden Grower |
| 3000* ⁷ | 15-25-10 | Ross Plant Food Prize Rose |
| | <u>4- 2- 1</u> | |
| 2956 | 16- 8- 4 | Vitogro Lawn Food |
| 3064 | 16- 8- 4 | Vitogro Lawn Pest Control Plus Plant Food |

* Small package sample.

⁷ Iron: Guaranteed, 0.10%; found, 0.15%.

TABLE 5.

ANALYSES OF MIXED FERTILIZERS

| Mfr.
No. | Per cent
organic
nitrogen | | Per cent
total
nitrogen | Per cent
available
phosphoric
acid | Per cent
water-
soluble
potash | Per cent
magnesium |
|-------------|---------------------------------|--------|-------------------------------|---|---|-----------------------|
| | Sol. | Insol. | | | | |
| 80 | 1.92 | 2.76 | <u>5.84</u> | 3.32 | 6.76 | ---- |
| 80 | 1.60 | 2.92 | <u>6.00</u> | 3.20 | 6.82 | ---- |
| 99 | 2.88 | 2.20 | 6.48 | 2.92 | 6.46 | ---- |
| 99 | 2.08 | 2.64 | 6.32 | 3.64 | 6.74 | 3.08 |
| 80 | 0.78 | 0.94 | <u>8.78</u> | 6.09 | 13.75 | ---- |
| | | | | | | |
| 46 | 0.24 | 0.84 | 4.32 | 6.86 | 6.81 | ---- |
| 36 | 0.16 | 0.00 | 8.44 | 12.91 | <u>11.44</u> | 0.97 |
| 36 | 0.32 | 0.00 | <u>9.36</u> | 16.92 | 16.88 | 1.50 |
| | | | | | | |
| 135 | 0.62 | 3.74 | 4.36 | 3.81 | 1.22 | ---- |
| 38 | 2.16 | 0.96 | 3.76 | 1.28 | 1.14 | ---- |
| 38 | 0.32 | 0.92 | 12.00 | 4.21 | 4.35 | ---- |
| 31 | 8.08 | 2.44 | 15.36 | 5.55 | 5.83 | ---- |
| 38 | 7.72 | 2.92 | 15.60 | 5.33 | 5.14 | ---- |
| 27 | 15.04 | ---- | 15.68 | 5.07 | 6.19 | ---- |
| 125 | 25.76 | 0.00 | 30.40 | 11.39 | 10.32 | ---- |
| | | | | | | |
| 6 | 0.16 | 0.00 | <u>14.72</u> | 11.06 | 10.50 | ---- |
| 26 | 0.97 | 0.00 | <u>15.13</u> | <u>9.61</u> | 10.15 | ---- |
| 3 | 0.72 | 0.00 | 15.04 | 10.57 | 10.62 | ---- |
| 3 | 0.64 | 0.00 | 15.12 | <u>9.53</u> | 10.29 | ---- |
| 80 | 0.48 | 0.00 | 15.04 | <u>7.19</u> | 10.80 | ---- |
| 99 | 0.00 | 0.16 | <u>13.92</u> | <u>7.10</u> | 10.26 | ---- |
| | | | | | | |
| 36 | 0.16 | 0.00 | 6.00 | 8.86 | 8.01 | 1.39 |
| | | | | | | |
| 64 | 0.40 | 0.48 | 6.32 | 9.83 | 4.31 | ---- |
| 67 | 0.72 | 0.16 | 6.00 | 10.69 | 4.10 | ---- |
| 6 | 0.50 | 0.10 | 6.20 | 10.00 | 4.81 | ---- |
| 129 | 0.48 | 0.28 | 6.48 | 10.71 | 5.54 | ---- |
| 129 | 0.32 | 0.22 | 6.44 | 10.18 | 4.65 | ---- |
| 129 | 0.00 | 0.16 | 6.04 | 9.93 | 4.14 | ---- |
| 114 | 10.44 | 0.00 | 15.80 | 27.49 | 12.28 | ---- |
| | | | | | | |
| 129 | 9.64 | 4.68 | 16.40 | <u>7.56</u> | 5.39 | ---- |
| 129 | 6.54 | 6.88 | 16.08 | 7.93 | 4.25 | ---- |

~~~~~ Indicates deficiencies.

TABLE 5.  
ANALYSES OF MIXED FERTILIZERS

| Station<br>No. | Ratio, grade and brand |                                                                     |
|----------------|------------------------|---------------------------------------------------------------------|
| 3067           | 16- 8- 4               | Vitogro Lawn Weeder & Feeder                                        |
| 2382           | 20-10- 5               | Armour New Lightweight Vertagreen                                   |
| 2445           | 20-10- 5               | Atlantic's Lightweight Fertilizer for Turf                          |
| 2785           | 20-10- 5               | Burpee Lawn Food                                                    |
| 2968           | 20-10- 5               | C & J Lawn Food with Weed Killer                                    |
| 2951           | 20-10- 5               | Excel Lawn Food                                                     |
| 2776           | 20-10- 5               | Farmingdale Double Action Weed & Feed                               |
| 2278/          | 20-10- 5               | Garden Fair Lawn Maker                                              |
| 3014           | 20-10- 5               | Gold Seal Lawn Food (Corn Cob Meal Base)                            |
| 2167           | 20-10- 5               | Greenfield Measured-Release Lawn Food                               |
| 2246           | 20-10- 5               | Greenfield Measured-Release Lawn Food with<br>Broadleaf Weed Killer |
| 2892           | 20-10- 5               | Hart's Turf Food                                                    |
| 2676           | 20-10- 5               | Homestead Custom Lawn Food                                          |
| 2908           | 20-10- 5               | HH Blade Lawn Food                                                  |
| 2287           | 20-10- 5               | Lawn Master Turf Food                                               |
| 2290           | 20-10- 5               | Loft's Weed & Feed                                                  |
| 2458           | 20-10- 5               | Mc Ardle's Turf Food                                                |
| 2847           | 20-10- 5               | Marvel Green Lawn Builder                                           |
| 2903           | 20-10- 5               | Marvel Green Lawn Builder                                           |
| 2262           | 20-10- 5               | Mr. Turf's Lawn Fertilizer                                          |
| 2263           | 20-10- 5               | Mr. Turf's Weed & Feed                                              |
| 2915           | 20-10- 5               | Perk-Up Light Weight Lawn Food                                      |
| 2846           | 20-10- 5               | Plantation Lawn Food                                                |
| 2174           | 20-10- 5               | Scott's Turf Builder                                                |
| 2237           | 20-10- 5               | Sears Green Karpet Lawn Food                                        |
| 2662           | 20-10- 5               | Shamrock Lawn Food                                                  |
| 2831           | 20-10- 5               | Western Auto Revelation Lawn Fertilizer                             |
| 2809           | 20-10- 5               | Western Auto Weed & Feed                                            |
| 2177           | 20-10- 5               | Woodruff's Tuf Turf Lawn Fertilizer                                 |
|                | <u>4- 3- 1</u>         |                                                                     |
| 2931           | 8- 6- 2                | Armour Vertagreen Turf Formula (60% Nit. is<br>Org.)                |
| 2350           | 8- 6- 2                | Corenco Landscape                                                   |
| 2520           | 8- 6- 2                | Old Fox No Pest Turf Food                                           |
| 3027           | 8- 6- 2                | Walgren Tree Food                                                   |
| 2158           | 8- 6- 2                | Yale Special Mixture (50% Nit. is Org.)                             |
|                | <u>4- 3- 2</u>         |                                                                     |
| 2873           | 8- 6- 4                | Corenco Turf Green                                                  |
| 2509           | 8- 6- 4                | Corenco Turf Green with Chlordane                                   |
| 2519           | 8- 6- 4                | Green Lawn Fertilizer                                               |
| 2516           | 8- 6- 4                | Guardian Gro-Green Lawn Fertilizer                                  |
| 2485           | 8- 6- 4                | Lawn Craft Turf Fertilizer (50% Nit. is Org.)                       |
| 2926           | 8- 6- 4                | Lawn Craft Fish Base (50% Nit. is Org.)                             |

\* Small package sample.

/ Unregistered.

TABLE 5. .

## ANALYSES OF MIXED FERTILIZERS

| Mfr.<br>No. | Per cent<br>organic<br>nitrogen |        | Per cent<br>total<br>nitrogen | Per cent<br>available<br>phosphoric<br>acid | Per cent<br>water-<br>soluble<br>potash | Per cent<br>magnesium |
|-------------|---------------------------------|--------|-------------------------------|---------------------------------------------|-----------------------------------------|-----------------------|
|             | Sol.                            | Insol. |                               |                                             |                                         |                       |
| 129         | 9.04                            | 5.06   | <u>15.78</u>                  | 7.78                                        | 4.02                                    | ----                  |
| 12          | 12.16                           | 0.84   | 20.64                         | 10.03                                       | <u>4.22</u>                             | ----                  |
| 14          | 11.20                           | 2.08   | 20.00                         | 8.77                                        | <u>5.15</u>                             | ----                  |
| 25          | 10.94                           | 4.72   | 20.94                         | 10.99                                       | 5.78                                    | ----                  |
| 26          | -----                           | -----  | <u>19.52</u>                  | 13.18                                       | <u>3.53</u>                             | ----                  |
| 48          | 17.44                           | 0.00   | <u>24.16</u>                  | 11.22                                       | <u>11.41</u>                            | ----                  |
| 53          | 11.36                           | 0.76   | <u>17.56</u>                  | 9.92                                        | 5.64                                    | ----                  |
| 56          | 16.80                           | 1.64   | <u>20.96</u>                  | <u>9.08</u>                                 | 5.20                                    | ----                  |
| 8           | 13.88                           | 3.40   | 24.16                         | <u>12.74</u>                                | 5.03                                    | ----                  |
| 45          | 11.52                           | 1.96   | 20.48                         | 12.22                                       | 6.36                                    | ----                  |
| 45          | 13.48                           | 2.20   | 20.16                         | <u>9.35</u>                                 | 6.63                                    | ----                  |
| 74          | 9.91                            | 4.60   | 20.48                         | <u>10.93</u>                                | 5.52                                    | ----                  |
| 6           | 8.64                            | 4.96   | <u>18.88</u>                  | 10.51                                       | 5.25                                    | ----                  |
| 80          | 10.40                           | 4.52   | <u>20.16</u>                  | 12.06                                       | 5.33                                    | ----                  |
| 54          | 14.88                           | 0.16   | 20.16                         | <u>9.31</u>                                 | 6.82                                    | ----                  |
| 89          | 16.64                           | 0.00   | 20.64                         | <u>10.82</u>                                | 5.10                                    | ----                  |
| 92          | 22.24                           | 0.00   | 27.84                         | <u>9.18</u>                                 | 8.23                                    | ----                  |
| 10          | 13.28                           | 3.28   | 23.20                         | <u>11.91</u>                                | 6.81                                    | ----                  |
| 10          | 13.32                           | 3.00   | 22.88                         | 12.99                                       | 6.28                                    | ----                  |
| 85          | 16.20                           | 0.20   | 21.36                         | <u>9.00</u>                                 | 5.17                                    | ----                  |
| 85          | 16.36                           | 0.12   | 20.48                         | <u>10.10</u>                                | 5.84                                    | ----                  |
| 105         | 11.36                           | 4.52   | 21.00                         | 11.41                                       | 5.36                                    | ----                  |
| 20          | 10.40                           | 0.00   | <u>18.88</u>                  | 11.16                                       | 5.22                                    | ----                  |
| 115         | 14.24                           | 5.80   | 21.76                         | 9.88                                        | 5.15                                    | ----                  |
| 116         | 10.40                           | 4.56   | 20.96                         | 10.56                                       | 5.78                                    | ----                  |
| 8           | 16.40                           | 0.12   | 25.16                         | 15.45                                       | 7.68                                    | ----                  |
| 142         | 16.48                           | 0.00   | 20.16                         | <u>9.70</u>                                 | 5.64                                    | ----                  |
| 142         | 19.68                           | 0.00   | 23.04                         | <u>10.69</u>                                | 5.85                                    | ----                  |
| 146         | 9.12                            | 4.72   | 20.40                         | 12.70                                       | 5.17                                    | ----                  |
| 12          | 0.72                            | 2.80   | <u>7.48</u>                   | 6.62                                        | 2.96                                    | ----                  |
| 36          | 2.56                            | 0.80   | <u>8.40</u>                   | 6.12                                        | 2.02                                    | ----                  |
| 99          | 0.72                            | 1.52   | 8.16                          | 6.09                                        | 3.78                                    | ----                  |
| 139         | 0.96                            | 0.90   | 8.00                          | 6.97                                        | 5.47                                    | ----                  |
| 2           | 3.96                            | 1.48   | 9.76                          | 9.46                                        | 2.89                                    | ----                  |
| 36          | 1.00                            | 2.84   | 8.08                          | 6.08                                        | 4.86                                    | ----                  |
| 36          | 1.20                            | 2.66   | <u>7.56</u>                   | 7.19                                        | 4.15                                    | ----                  |
| 99          | 0.16                            | 0.00   | <u>8.56</u>                   | 6.44                                        | 4.57                                    | ----                  |
| 1           | 2.00                            | 0.32   | 9.68                          | <u>5.51</u>                                 | <u>3.72</u>                             | ----                  |
| 80          | 3.44                            | 0.46   | 8.16                          | <u>7.09</u>                                 | <u>4.89</u>                             | ----                  |
| 80          | 4.44                            | 1.44   | 8.16                          | 5.92                                        | 4.05                                    | ----                  |

~~~~~ Indicates deficiencies

¹ State purchase.

TABLE 5.
ANALYSES OF MIXED FERTILIZERS

| Station
No. | Ratio, grade and brand | | |
|-------------------|------------------------|--|--|
| | 4- 6- 3 | | |
| 2673 | 8-12- 6 | Emerald Green Plant Food | |
| 2724/ | 8-12- 6 | Green Carpet Plant Food | |
| 2723 | 8-12- 6 | Pink Vigoro | |
| | 5- 3- 2 | | |
| 2717 ¹ | 10- 6- 4 | AA Plant Food | |
| 3013 | 10- 6- 4 | Agrico 1-2-3 | |
| 2480 | 10- 6- 4 | Agrico Insect Control with Fertilizer | |
| 2248 | 10- 6- 4 | Agrico for Lawns, Trees & Shrubs | |
| 2381 | 10- 6- 4 | Agrico Weed Control with Fertilizer | |
| 2294 | 10- 6- 4 | Armour Vertagreen Plant Food for Turf & Trees | |
| 2386* | 10- 6- 4 | Armour Vertagreen for Evergreens | |
| 2773 | 10- 6- 4 | Armour Vertagreen Turf Food with Chlordane | |
| 2752 | 10- 6- 4 | Asgrow Lawn Food | |
| 2241 | 10- 6- 4 | Asgrow 3-Way Lawn Food with Bandane | |
| 3089 | 10- 6- 4 | Breck's Big-3 Lawn Food with Bandane | |
| 3436 | 10- 6- 4 | C & J Fertilizer (50% Nit. is Org.) | |
| 3437 | 10- 6- 4 | C & J Fertilizer (50% Nit. is Org.) | |
| 3438 | 10- 6- 4 | C & J Fertilizer (50% Nit. is Org.) | |
| 3439 | 10- 6- 4 | C & J Fertilizer (50% Nit. is Org.) | |
| 2397 | 10- 6- 4 | C & J Hi-Organic Fertilizer | |
| 2970 | 10- 6- 4 | C & J Homogeneous Granulated Fertilizer | |
| 2990 | 10- 6- 4 | Cascio's Lawn Food | |
| 2175 | 10- 6- 4 | Corenco Golf & Lawn Special | |
| 2850 | 10- 6- 4 | Corenco Golf & Lawn Special with Crabgrass Control | |
| 3056 | 10- 6- 4 | Corenco Pro-Grass Turf Food (75% Nit. is Org) | |
| 2199 | 10- 6- 4 | Cross Country Hi-Organic | |
| 2758 | 10- 6- 4 | Davco 3-G Granulated Fertilizer (50% Nit. is Org.) | |
| 2771 | 10- 6- 4 | Davco 3-G Granulated Fertilizer | |
| 2193 | 10- 6- 4 | Deerfield Lawn Food | |
| 2352 | 10- 6- 4 | Eastern States Lawn Special with 2.4 Mg | |
| 2800 | 10- 6- 4 | Espoma Turf-Tone | |
| 2718 | 10- 6- 4 | Ezzell's Lawn Food (60% Nit. is Org.) | |
| 2803 | 10- 6- 4 | Fairlawn Fertilizer (50% Nit. is Org.) | |
| 2805 | 10- 6- 4 | Fairlawn Lawn Food & Weed Killer Comb. | |
| 2834 | 10- 6- 4 | Federal Lawn Life Plant Food (50% Nit. is Org.) | |
| 2835 | 10- 6- 4 | Federal Lawn Life Plant Food | |
| 2838 | 10- 6- 4 | Federal Lawn Life Plant Food (100% Nit. is Org.) | |
| 2973 | 10- 6- 4 | Garden Center of West Hartford Lawn Food | |
| 3072 | 10- 6- 4 | Garden Exchange, Inc. of Trumbull Lawn Food | |
| 2239 | 10- 6- 4 | Glen Terrace Lawn Food | |
| 2782 | 10- 6- 4 | Golden Comet Lawn Food | |

* Small package sample.

/ Unregistered.

TABLE 5.

ANALYSES OF MIXED FERTILIZERS

| Mfr.
No. | Per cent
organic
nitrogen | | Per cent
total
nitrogen | Per cent
available
phosphoric
acid | Per cent
water-
soluble
potash | Per cent
magnesium |
|-------------|---------------------------------|--------|-------------------------------|---|---|-----------------------|
| | Sol. | Insol. | | | | |
| 55 | 1.44 | 0.58 | <u>7.76</u> | 12.01 | 6.05 | ---- |
| 128 | 1.68 | 0.60 | <u>7.60</u> | <u>11.71</u> | 6.42 | ---- |
| 129 | 0.56 | 0.30 | <u>8.16</u> | <u>11.65</u> | <u>5.79</u> | ---- |
| 6 | 0.32 | 0.26 | <u>9.60</u> | 6.01 | 4.30 | ---- |
| 6 | 5.02 | 0.66 | 10.00 | 6.03 | 4.29 | ---- |
| 6 | 4.72 | 0.40 | 10.56 | 5.99 | 4.18 | ---- |
| 6 | 4.08 | 0.50 | <u>9.70</u> | 5.94 | 4.02 | ---- |
| 6 | 4.32 | 0.42 | 10.32 | 6.10 | 4.28 | ---- |
| 12 | 0.08 | 1.68 | <u>9.76</u> | 6.34 | 4.29 | ---- |
| 12 | 0.68 | 1.78 | <u>9.88</u> | 6.54 | 4.08 | ---- |
| 12 | 0.40 | 1.46 | <u>9.36</u> | 6.14 | 4.54 | ---- |
| 13 | 0.32 | 0.00 | 10.48 | 6.11 | 4.23 | ---- |
| 13 | 6.24 | 0.00 | 11.52 | 9.60 | 5.76 | ---- |
| 13 | 6.08 | 0.14 | 10.14 | 5.82 | 4.03 | ---- |
| 26 | 2.48 | 3.98 | <u>9.58</u> | <u>5.64</u> | 4.24 | ---- |
| 26 | 2.32 | 4.22 | <u>9.42</u> | <u>5.61</u> | 4.15 | ---- |
| 26 | 2.48 | 4.08 | <u>9.60</u> | 6.08 | 4.16 | ---- |
| 26 | 2.44 | 4.00 | <u>9.40</u> | 6.11 | 4.43 | ---- |
| 26 | 4.96 | 1.20 | 10.32 | 6.11 | 4.02 | ---- |
| 26 | 0.88 | 0.00 | <u>9.44</u> | 6.11 | 4.16 | ---- |
| 31 | 3.76 | 1.34 | <u>9.68</u> | 7.26 | 5.17 | ---- |
| 36 | 3.82 | 0.90 | 10.00 | 7.47 | 4.04 | ---- |
| 36 | 3.84 | 1.08 | 10.08 | 6.07 | 4.82 | ---- |
| 36 | 1.82 | 5.22 | <u>9.68</u> | 6.89 | 5.19 | ---- |
| 116 | 3.52 | 1.60 | 10.48 | 6.08 | 4.40 | ---- |
| 65 | 0.56 | 2.10 | <u>8.64</u> | 8.15 | 7.30 | ---- |
| 65 | 0.88 | 0.48 | 10.08 | 6.65 | 6.90 | ---- |
| 98 | 2.72 | 0.12 | 10.72 | 6.82 | 4.23 | ---- |
| 3 | 1.60 | 2.64 | 10.00 | 6.15 | 0.53 | 3.74 |
| 46 | 2.78 | 1.62 | 10.48 | 7.23 | 4.86 | ---- |
| 49 | 2.72 | 1.86 | <u>8.66</u> | 7.78 | 4.40 | ---- |
| 20 | 4.08 | 1.42 | 10.08 | 6.21 | 4.20 | ---- |
| 20 | 2.48 | 0.14 | <u>9.68</u> | 7.14 | 4.87 | ---- |
| 54 | 4.72 | 0.66 | <u>9.22</u> | 7.09 | 4.72 | ---- |
| 54 | 0.24 | 0.00 | <u>9.44</u> | 6.50 | 4.17 | ---- |
| 54 | 5.92 | 0.84 | <u>8.88</u> | 6.18 | 4.38 | ---- |
| 57 | 3.68 | 0.30 | 11.58 | <u>5.70</u> | 4.22 | ---- |
| 58 | 4.82 | 1.58 | 10.96 | <u>6.52</u> | 4.42 | ---- |
| 60 | 4.42 | 1.50 | 10.56 | 6.35 | 4.30 | ---- |
| 1 | 5.64 | 0.20 | 11.20 | <u>5.39</u> | 4.54 | ---- |

~~~~~ Indicates deficiencies.

<sup>1</sup> State purchase.

TABLE 5.  
ANALYSES OF MIXED FERTILIZERS

| Station<br>No.    | Ratio, grade and brand |                                                                         |  |
|-------------------|------------------------|-------------------------------------------------------------------------|--|
| 3017              | 10- 6- 4               | Gold Seal Lawn Food                                                     |  |
| 2407              | 10- 6- 4               | G & O Turf Food & Insecticide with Chlordane                            |  |
| 2416              | 10- 6- 4               | G & O Turf Food & Weed Killer with 2, 4-D                               |  |
| 2668              | 10- 6- 4               | Grace Turf Food                                                         |  |
| 2625              | 10- 6- 4               | Grand Lawn 40% Organic Fertilizer                                       |  |
| 2872              | 10- 6- 4               | Greenlife Plant Food                                                    |  |
| 2715              | 10- 6- 4               | Green Ribbon Lawn Food                                                  |  |
| 2471              | 10- 6- 4               | Gro Fast Lawn Food                                                      |  |
| 2897              | 10- 6- 4               | Hart's Crabgrass Seed Killer & Lawn Fertilizer                          |  |
| 2895              | 10- 6- 4               | Hart's Two-For-One                                                      |  |
| 2749              | 10- 6- 4               | Heritage House Three In One                                             |  |
| 2731              | 10- 6- 4               | Heritage House Weed Killer & Lawn Food                                  |  |
| 2279              | 10- 6- 4               | Homestead Farm Style Fertilizer                                         |  |
| 2379 <sup>/</sup> | 10- 6- 4               | HH "A" Fertilizer                                                       |  |
| 2402              | 10- 6- 4               | HH 3 Way Turf 'N Tree Food                                              |  |
| 2753              | 10- 6- 4               | HH Turf 'N Tree Food                                                    |  |
| 2401              | 10- 6- 4               | HH Turf 'N Tree Food with Insect Control                                |  |
| 2377              | 10- 6- 4               | HH Urea-Form "B"                                                        |  |
| 2725              | 10- 6- 4               | HH Weed-Kil Lawn Food with 2, 4-D                                       |  |
| 2730              | 10- 6- 4               | Just Right Turf Food                                                    |  |
| 2487              | 10- 6- 4               | Lawn Craft Turf Fertilizer (50% Nit.<br>is Org.)                        |  |
| 2490              | 10- 6- 4               | Lawn Craft Turf Fertilizer (50% Nit.<br>is Org.) (Roto-Blend)           |  |
| 2921              | 10- 6- 4               | Lawn Craft Turf Food (60% Nit. is Org.)<br>with Urea-Form & Act. Sludge |  |
| 3029              | 10- 6- 4               | Lawn Craft Turf Food - All Mineral                                      |  |
| 2288              | 10- 6- 4               | Lawn Master Turf Food (100 Nit. is Org.)                                |  |
| 2949              | 10- 6- 4               | Lawn & Tree Food (60% Nit. is Org.)                                     |  |
| 2899              | 10- 6- 4               | Lebanon Crab Seed Killer & Lawn Fertilizer                              |  |
| 2346              | 10- 6- 4               | Liberty Fertilizer                                                      |  |
| 2293              | 10- 6- 4               | Loft's for Turf                                                         |  |
| 2848              | 10- 6- 4               | Louis Bros. Inc. Country Club Lawn Food                                 |  |
| 2191              | 10- 6- 4               | Luzerne Lawn Food                                                       |  |
| 2462              | 10- 6- 4               | McArdle's Lawn & Tree Food                                              |  |
| 2391              | 10- 6- 4               | Miller Plus 3                                                           |  |
| 2230 <sup>1</sup> | 10- 6- 4               | Old Fox Fertilizer                                                      |  |
| 2254 <sup>1</sup> | 10- 6- 4               | Old Fox Fertilizer                                                      |  |
| 2424 <sup>1</sup> | 10- 6- 4               | Old Fox Fertilizer                                                      |  |
| 2436 <sup>1</sup> | 10- 6- 4               | Old Fox Fertilizer                                                      |  |
| 2628 <sup>1</sup> | 10- 6- 4               | Old Fox Fertilizer                                                      |  |
| 2518              | 10- 6- 4               | Old Fox Turf Food with Ureaform                                         |  |
| 2804              | 10- 6- 4               | Park Lane Fertilizer & Weed Killer Combination                          |  |
| 2475              | 10- 6- 4               | Patco's Sod Maker                                                       |  |
| 2663              | 10- 6- 4               | Perk-Up Lawn Food                                                       |  |
| 3021              | 10- 6- 4               | Perk-Up Lawn Food with Crabgrass Preventer                              |  |

\* Small package sample.

<sup>/</sup> Unregistered.

TABLE 5.

## ANALYSES OF MIXED FERTILIZERS

| Mfr.<br>No. | Per cent<br>organic<br>nitrogen |        | Per cent<br>total<br>nitrogen | Per cent<br>available<br>phosphoric<br>acid | Per cent<br>water-<br>soluble<br>potash | Per cent<br>magnesium |
|-------------|---------------------------------|--------|-------------------------------|---------------------------------------------|-----------------------------------------|-----------------------|
|             | Sol.                            | Insol. |                               |                                             |                                         |                       |
| 8           | 0.08                            | 0.00   | 10.00                         | 6.35                                        | 4.67                                    | ----                  |
| 64          | 0.94                            | 1.46   | <u>8.88</u>                   | 7.62                                        | 5.05                                    | ----                  |
| 64          | 2.60                            | 1.96   | <u>10.64</u>                  | 6.14                                        | 4.40                                    | ----                  |
| 65          | 0.40                            | 0.10   | 10.00                         | 6.84                                        | 4.04                                    | ----                  |
| 39          | 0.56                            | 2.40   | 10.00                         | 5.79                                        | 4.66                                    | ----                  |
| 69          | 6.88                            | 1.16   | <u>9.48</u>                   | 5.83                                        | 4.60                                    | ----                  |
| 70          | 0.88                            | 0.10   | <u>10.72</u>                  | 6.88                                        | 4.08                                    | ----                  |
| 71          | 4.72                            | 1.56   | 10.76                         | 6.17                                        | 4.53                                    | ----                  |
| 74          | 8.12                            | 1.80   | 12.80                         | <u>4.75</u>                                 | 4.00                                    | ----                  |
| 74          | 6.26                            | 0.62   | 10.64                         | <u>7.81</u>                                 | 5.60                                    | ----                  |
| 76          | 7.44                            | 3.52   | 13.84                         | 10.27                                       | 7.88                                    | ----                  |
| 76          | 7.76                            | 1.28   | 12.32                         | 11.94                                       | 5.64                                    | ----                  |
| 6           | 0.26                            | 0.80   | 10.64                         | 5.87                                        | 4.04                                    | ----                  |
| 80          | 2.34                            | 3.50   | 10.96                         | 5.93                                        | 5.22                                    | ----                  |
| 80          | 2.32                            | 4.54   | 11.36                         | 6.40                                        | 4.74                                    | ----                  |
| 80          | 2.26                            | 3.82   | 10.32                         | 6.35                                        | 4.65                                    | ----                  |
| 80          | 2.64                            | 4.00   | 11.04                         | 6.34                                        | 4.15                                    | ----                  |
| 80          | 1.84                            | 2.72   | 10.64                         | 5.88                                        | 5.14                                    | ----                  |
| 80          | 5.42                            | 0.58   | 10.16                         | 7.62                                        | 4.73                                    | ----                  |
| 72          | 2.96                            | 2.24   | 10.00                         | 5.99                                        | 4.27                                    | ----                  |
| 80          | 4.88                            | 0.28   | <u>9.68</u>                   | 7.52                                        | 6.16                                    | ----                  |
| 80          | 3.56                            | 2.22   | 10.24                         | <u>5.66</u>                                 | 4.05                                    | ----                  |
| 80          | 2.80                            | 1.12   | 10.00                         | 6.14                                        | 5.60                                    | ----                  |
| 80          | 2.56                            | 0.12   | 10.20                         | 6.40                                        | 4.32                                    | ----                  |
| 54          | 6.08                            | 0.86   | <u>9.52</u>                   | 6.32                                        | 4.43                                    | ----                  |
| 37          | 4.82                            | 1.42   | <u>10.56</u>                  | 6.51                                        | 4.34                                    | ----                  |
| 87          | 8.04                            | 1.32   | 12.40                         | 5.82                                        | 4.16                                    | ----                  |
| 80          | 2.96                            | 0.00   | 10.32                         | 6.44                                        | 4.30                                    | ----                  |
| 89          | 4.40                            | 1.20   | <u>9.36</u>                   | 6.39                                        | 4.08                                    | ----                  |
| 88          | 0.52                            | 0.00   | 10.00                         | 6.26                                        | 4.39                                    | ----                  |
| 36          | 0.24                            | 0.16   | 10.40                         | 6.90                                        | 4.64                                    | ----                  |
| 92          | 5.12                            | 0.84   | 11.64                         | 6.85                                        | <u>3.15</u>                             | ----                  |
| 93          | 2.56                            | 0.96   | 10.00                         | 7.09                                        | <u>4.02</u>                             | ----                  |
| 99          | 2.48                            | 0.88   | <u>9.60</u>                   | 6.20                                        | 5.21                                    | ----                  |
| 99          | 3.04                            | 2.12   | <u>10.48</u>                  | 5.98                                        | 4.81                                    | ----                  |
| 99          | 2.80                            | 2.08   | 10.08                         | 6.15                                        | 4.74                                    | ----                  |
| 99          | 3.04                            | 1.60   | 10.00                         | 6.28                                        | 5.18                                    | ----                  |
| 99          | 0.32                            | 0.08   | <u>9.76</u>                   | 7.01                                        | 4.06                                    | ----                  |
| 99          | 1.44                            | 5.04   | <u>10.24</u>                  | 6.18                                        | <u>3.38</u>                             | ----                  |
| 20          | 3.04                            | 0.16   | 10.16                         | 6.09                                        | 4.14                                    | ----                  |
| 103         | 3.22                            | 2.94   | 10.24                         | 6.16                                        | 4.07                                    | ----                  |
| 105         | 3.28                            | 0.00   | 11.12                         | 6.07                                        | 4.36                                    | ----                  |
| 105         | 4.32                            | 1.52   | 10.40                         | 6.34                                        | 4.67                                    | ----                  |

~~~~~ Indicates deficiencies.

¹ State purchase.

TABLE 5.
ANALYSES OF MIXED FERTILIZERS

| Station No. | Ratio, grade and brand | |
|-----------------------------|------------------------|--|
| 2419 | 10- 6- 4 | Plantation Quality Fertilizer |
| 2405 | 10- 6- 4 | Renzulli Bros. Lawn Food |
| 2238* | 10- 6- 4 | Sears Evergreen Food |
| 3008 | 10- 6- 4 | Spencer Sod (50% Nit. is Org.) |
| 2258 | 10- 6- 4 | Super Turf King Lawn Food |
| 2406 | 10- 6- 4 | Valu-Gro All Purpose |
| 2457 | 10- 6- 4 | Wilson's Special 55% U F Lawn Food |
| 2400 | 10- 6- 4 | Wonderlawn Lawn Food (Org. Nit. & 4.0 Mg |
| 2893 | 10- 6- 4 | Woodruff's Tuf Turf Turf Food |
| 2898 | 10- 6- 4 | Woodruff's Tuf Turf Two-For-One |
| | 5- 4- 0 | |
| 3090 | 5- 4- 0 | Breck's Greenite |
| 2935 | 5- 4- 0 | Crabgrass Plant Killer in Organic Lawn Food |
| 2403 | 5- 4- 0 | HH Nitrogranic |
| 2920 | 5- 4- 0 | Lawn Craft VFT Turf Food |
| 2631 | 5- 4- 0 | Lebanon Turf Organic |
| 2934 | 5- 4- 0 | Weed Killer in Organic Lawn Food |
| <u>Miscellaneous Ratios</u> | | |
| 2967 | 1.5-. 5-7 | Fertal-Gro (T Mulch Ground Tobacco Stems) |
| 2454* | 2- 3- 2 | Black Magic Plant Food Tablets |
| 2299 | 3- 2- 1 | Espoma Organic |
| 3012 | 3- 2- 3 | Fertrell, Super |
| 2999 | 3-2.5-1.5 | Corenco Spurzoon |
| 2197 | 3- 4- 2 | Miracle Orga-Vite Lawn Fertilizer |
| 2198* | 4- 4- 2 | Miracle Orga-Vite All-Purpose Evergreen Food |
| 2345* | 4- 6- 4 | Holly-Tone |
| 2464 ⁸ | 4- 6- 4 | Holly-Tone |
| 2285* | 4- 6-10 | Hoffman Azalea & Evergreen Food |
| 2456 | 4- 8- 5 | Wilson's Eureka Greenhouse & Garden Plant Food |
| 2922 | 4-10- 0 | M. L. Shoemaker's "Swift-Sure" |
| 2675* | 4-10- 4 | Emerald Green Evergreen Food |
| 2195* | 4-10- 4 | HH Evergreen Food |
| 2240 | 4-10- 4 | HH Evergreen Food |
| 2802* | 4-10- 6 | Bulb-Tone |
| 2750* | 4-10-10 | Black Magic African Violet Blossom Booster |
| 2751* | 5- 1- 1 | Atlas Fish Emulsion Fertilizer |
| 2780* | 5- 2- 2 | Alaska Deodorized Fish Fertilizer |
| 2959 | 5- 4- 4 | Brookside Nature's Evergreen |
| 2296 | 5- 5- 0 | Armour Armorganic Plant Food |
| 2607 | 5- 5- 0 | Corenco Organic Turf Fertilizer |
| 2849 | 5- 5- 0 | Organi-Green |

* Small package sample.

/ Unregistered.

⁸ Iron: Guaranteed, 0.10%; found, 0.21%.

TABLE 5.

ANALYSES OF MIXED FERTILIZERS

| Mfr.
No. | Per cent
organic
nitrogen | | Per cent
total
nitrogen | Per cent
available
phosphoric
acid | Per cent
water-
soluble
potash | Per cent
magnesium |
|-------------|---------------------------------|--------|-------------------------------|---|---|-----------------------|
| | Sol. | Insol. | | | | |
| 20 | 1.30 | 0.38 | 10.64 | 6.12 | 6.02 | ---- |
| 112 | 0.48 | 2.44 | 10.24 | 6.02 | 4.36 | ---- |
| 116 | 3.16 | 1.56 | 10.00 | 6.65 | 4.48 | ---- |
| 123 | 4.08 | 0.38 | 10.00 | 6.20 | 4.28 | ---- |
| 1 | 0.08 | 0.54 | 10.88 | <u>5.49</u> | 4.41 | ---- |
| 136 | 0.56 | 0.24 | 10.00 | <u>6.01</u> | 4.17 | ---- |
| 145 | 1.92 | 5.66 | 10.56 | 6.37 | 4.23 | ---- |
| 144 | 2.24 | 1.56 | 10.40 | 5.91 | 4.23 | 4.72 |
| 146 | 6.88 | 0.64 | 11.44 | <u>5.37</u> | 5.85 | ---- |
| 146 | 6.88 | 0.80 | 11.52 | <u>6.55</u> | 4.24 | ---- |
| | | | | | | |
| 13 | 0.44 | 4.68 | 5.12 | 6.23 | ---- | ---- |
| 116 | 1.00 | 4.30 | 5.68 | 5.45 | ---- | ---- |
| 80 | 0.26 | 4.78 | 5.04 | 6.18 | ---- | ---- |
| 80 | 0.46 | 4.66 | 5.36 | 6.12 | 0.00 | ---- |
| 87 | 0.34 | 3.62 | <u>4.12</u> | 7.18 | ---- | ---- |
| 116 | 0.45 | 4.99 | <u>5.44</u> | 6.27 | ---- | ---- |
| | | | | | | |
| 43 | ---- | ---- | 1.50 | 0.63 | 7.71 | ---- |
| 19 | 0.16 | 2.48 | 2.64 | 3.53 | 3.00 | ---- |
| 46 | 0.76 | 1.28 | 4.52 | 3.15 | 2.49 | ---- |
| 95 | 0.42 | 2.80 | 3.32 | 2.73 | 3.44 | ---- |
| 36 | 1.60 | 2.52 | 4.12 | 2.65 | 2.18 | ---- |
| 102 | 0.72 | 2.20 | 3.28 | 5.91 | 2.23 | ---- |
| | | | | | | |
| 102 | 0.48 | 2.16 | <u>3.00</u> | 6.12 | 3.13 | ---- |
| 46 | 0.72 | 1.46 | <u>4.40</u> | 6.18 | 3.83 | ---- |
| 46 | 0.57 | 1.48 | 4.77 | 6.55 | 5.04 | ---- |
| 78 | 0.48 | 1.86 | 5.40 | 7.44 | 10.23 | ---- |
| | | | | | | |
| 145 | 0.40 | 1.76 | 5.28 | 8.71 | <u>2.85</u> | ---- |
| 119 | 1.00 | 2.76 | 4.92 | 10.62 | ---- | ---- |
| 55 | 1.26 | 0.90 | 4.32 | 10.74 | 4.63 | ---- |
| 80 | 1.08 | 1.04 | 4.20 | 10.23 | 4.79 | ---- |
| 80 | 0.94 | 1.50 | 4.52 | 10.20 | 4.34 | ---- |
| 46 | 0.34 | 1.54 | 4.60 | <u>9.54</u> | 6.48 | ---- |
| 19 | ---- | 0.00 | 4.72 | <u>9.94</u> | 10.74 | ---- |
| 15 | 2.75 | 0.34 | 5.36 | 1.20 | 1.28 | ---- |
| 4 | 4.32 | 0.62 | 6.04 | 2.59 | 3.15 | ---- |
| 24 | 0.54 | 5.30 | 5.84 | 4.02 | 5.88 | ---- |
| 12 | 0.46 | 4.74 | 5.20 | 5.59 | ---- | ---- |
| 36 | 0.32 | 4.88 | 5.20 | 5.48 | ---- | ---- |
| 86 | 0.60 | 5.00 | 5.60 | 7.63 | ---- | ---- |

~~~~~ Indicates deficiencies.

<sup>1</sup> State purchase.

TABLE 5.  
ANALYSES OF MIXED FERTILIZERS

| Station<br>No.      | Ratio, grade and brand                                       |
|---------------------|--------------------------------------------------------------|
| 2798*               | 5- 5- 1 New Era Deodorized Fish Emulsion African Violet Food |
| 2168*               | 5- 5- 1 Gray Mer-Made Plant Food                             |
| 2991                | 5- 6-15 G & O Special Food-For-Bulbs                         |
| 2486                | 5- 8- 7 Liberty Fertilizer                                   |
| 2173                | 5- 8- 7 Corenco                                              |
| 2907                | 5-10- 3 Electra Plant Food                                   |
| 2469*               | 5-10- 3 Electra Plant Food                                   |
| 2755                | 5-20-20 Agrico for Seeding Down                              |
| 2799                | 6- 6- 4 Espoma Rose Food                                     |
| 3028                | 6- 7- 4 Lawn Craft Tree & Shrub Food                         |
| 2900 <sup>9</sup>   | 6- 7- 5 Lebanon Azalea & Evergreen Fertilizer                |
| 2654* <sup>10</sup> | 6- 7- 5 Lebanon Azalea & Evergreen Fertilizer                |
| 2777                | 6- 8- 6 Bartlett Green Tree Food                             |
| 2361*               | 6-10- 6 Old Fox for Acid-Soil Plants                         |
| 2889                | 6-10-10 Old Fox Fertilizer with 1.2 Mg                       |
| 2919                | 6-12- 4 Lawn Craft Seed Starter                              |
| 2440*               | 6-18- 6 New Plantdrops Instant Liquid African Violet Food    |
| 2252*               | 6-18- 6 Ortho Liquid Tomato Food                             |
| 2891*               | 6-18- 6 Plantdrops Instant Liquid Plant Food                 |
| 2398                | 7- 8- 5 Greenfield Double Action Rose Food                   |
| 2674*               | 7-10- 5 Emerald Green Rose Food                              |
| 2481*               | 7-10- 5 HH Rose Food                                         |
| 3023                | 7-10- 5 HH Rose Food                                         |
| 2664*               | 7-15- 8 New Era All Purpose Plant Food                       |
| 2876* <sup>11</sup> | 8-10- 4 F & B Rose Food                                      |
| 2974                | 8-10- 4 Thrive Rose Food                                     |
| 2993                | 8-10-10 Liberty Super Spud Fertilizer with 1.2 Mg            |
| 2881                | 8-10-10 Old Fox Fertilizer with 1.2 Mg                       |
| 2933*               | 8-12- 4 Ortho Liquid Rose Food                               |
| 2938                | 8-24- 8 Greenfield Double Action Plant Food                  |
| 2841                | 8-40- 0 Magamp                                               |
| 3024                | 9- 5- 3 Lawn Craft VFT Fortified Turf Food                   |
| 2472                | 9- 8- 3 Patco's Lawn Food                                    |
| 3063                | 10- 4- 6 Vitogro Triple Acting Crabgrass Control             |
| 2853                | 10- 8- 2 Corenco Timberline Complete Tree Food               |
| 2975                | 10- 8- 4 Thrive Evergreen Food                               |
| 2779                | 10- 8- 4 Warren's Grade Lawn Food                            |
| 2880                | 10- 8- 7 Old Fox Tree Food                                   |
| 2465                | 10- 8- 8 Agrico A C R Fertilizer                             |
| 2979*               | 10-10- 5 California Liquid Green Thumb Fertilizer            |
| 2790*               | 10-15-12 New Era Gro                                         |

\* Small package sample.

<sup>9</sup> Iron: Guaranteed, 0.075%; found, 1.77%.

<sup>10</sup> Iron: Guaranteed, 0.075%; found, 1.84%.

TABLE 5.

## ANALYSES OF MIXED FERTILIZERS

| Mfr.<br>No. | Per cent<br>organic<br>nitrogen |        | Per cent<br>total<br>nitrogen | Per cent<br>available<br>phosphoric<br>acid | Per cent<br>water-<br>soluble<br>potash | Per cent<br>magnesium |
|-------------|---------------------------------|--------|-------------------------------|---------------------------------------------|-----------------------------------------|-----------------------|
|             | Sol.                            | Insol. |                               |                                             |                                         |                       |
| 33          | 3.28                            | 0.96   | <u>4.80</u>                   | 5.85                                        | 1.65                                    | ----                  |
| 68          | 3.36                            | 0.92   | <u>5.04</u>                   | 5.50                                        | 1.46                                    | ----                  |
| 64          | 0.88                            | 0.64   | 5.04                          | 6.22                                        | 15.82                                   | ----                  |
| 80          | 0.56                            | 0.30   | 5.10                          | 8.60                                        | 8.92                                    | ----                  |
| 36          | 0.08                            | 0.00   | 8.20                          | 16.07                                       | 13.64                                   | ----                  |
| 134         | 0.64                            | 2.08   | 5.12                          | 10.17                                       | 3.00                                    | ----                  |
| 134         | 0.44                            | 2.14   | 5.36                          | 10.02                                       | 3.36                                    | ----                  |
| 6           | 0.08                            | 0.10   | 5.08                          | 20.06                                       | 20.42                                   | ----                  |
| 46          | 0.16                            | 1.58   | 6.04                          | 6.51                                        | 4.70                                    | ----                  |
| 80          | 1.62                            | 0.78   | 6.16                          | 7.87                                        | 4.53                                    | ----                  |
| 87          | 1.20                            | 1.80   | 7.48                          | 7.85                                        | 7.94                                    | ----                  |
| 87          | 0.56                            | 1.20   | 6.64                          | 7.32                                        | 6.91                                    | ----                  |
| 16          | 0.30                            | 0.66   | 6.16                          | 7.84                                        | 6.80                                    | ----                  |
| 99          | 0.00                            | 0.64   | 6.56                          | 10.06                                       | 8.14                                    | ----                  |
| 99          | 0.48                            | 0.32   | 6.36                          | <u>9.71</u>                                 | 10.10                                   | 1.26                  |
| 80          | 1.92                            | 0.00   | 6.08                          | <u>10.72</u>                                | 4.33                                    | ----                  |
| 130         | 0.00                            | 0.00   | 5.90                          | 18.22                                       | 6.08                                    | ----                  |
| 27          | 0.04                            | 0.00   | 6.04                          | 18.45                                       | 6.01                                    | ----                  |
| 130         | 0.00                            | 0.00   | <u>5.52</u>                   | <u>17.06</u>                                | 6.02                                    | ----                  |
| 45          | 0.82                            | 3.22   | <u>7.80</u>                   | <u>7.85</u>                                 | 5.56                                    | ----                  |
| 55          | 1.12                            | 2.42   | <u>6.66</u>                   | 11.23                                       | 7.55                                    | ----                  |
| 80          | 1.46                            | 2.66   | <u>7.24</u>                   | 10.47                                       | 5.04                                    | ----                  |
| 80          | 1.20                            | 2.60   | 7.00                          | 10.22                                       | 5.25                                    | ----                  |
| 33          | 2.48                            | 0.10   | 7.96                          | 16.43                                       | 8.21                                    | ----                  |
| 50          | 2.88                            | 1.36   | 9.04                          | 10.98                                       | 5.42                                    | ----                  |
| 83          | 2.40                            | 2.88   | 8.24                          | 10.25                                       | 6.06                                    | ----                  |
| 80          | 0.86                            | 0.00   | 8.28                          | <u>9.55</u>                                 | 10.36                                   | 1.78                  |
| 99          | 0.32                            | 0.36   | 8.40                          | <u>10.03</u>                                | <u>9.43</u>                             | 2.00                  |
| 27          | 4.96                            | 0.00   | 8.00                          | 16.95                                       | <u>4.64</u>                             | ----                  |
| 45          | 0.64                            | 0.18   | 8.04                          | <u>23.65</u>                                | 9.15                                    | ----                  |
| 121         | 0.26                            | 7.18   | 8.08                          | <u>40.10</u>                                | ----                                    | ----                  |
| 80          | 1.68                            | 7.36   | 9.84                          | <u>4.62</u>                                 | 3.49                                    | ----                  |
| 103         | 2.48                            | 1.26   | 9.20                          | <u>7.96</u>                                 | 3.26                                    | ----                  |
| 129         | 5.76                            | 3.36   | 10.32                         | 5.20                                        | 6.53                                    | ----                  |
| 36          | 3.58                            | 2.58   | <u>9.60</u>                   | 9.59                                        | 4.53                                    | ----                  |
| 83          | 5.28                            | 1.64   | <u>11.84</u>                  | 9.23                                        | 4.45                                    | ----                  |
| 141         | 0.40                            | 0.28   | 10.32                         | 8.28                                        | 4.46                                    | ----                  |
| 99          | 2.00                            | 2.96   | 10.64                         | <u>7.75</u>                                 | 7.27                                    | ----                  |
| 6           | 3.72                            | 0.52   | 10.80                         | <u>7.74</u>                                 | 8.30                                    | ----                  |
| 28          | 6.48                            | 0.00   | 10.72                         | <u>10.00</u>                                | 5.48                                    | ----                  |
| 33          | 0.20                            | 0.00   | 10.96                         | 17.48                                       | 12.85                                   | ----                  |

~~~~~ Indicates deficiencies.

¹¹ Iron: Guaranteed, 0.15%; found, 1.98%.

TABLE 5.
ANALYSES OF MIXED FERTILIZERS

| Station
No. | Ratio, grade and brand |
|----------------|--|
| 2774 | 11- 4- 6 Golden Vigoro Lawn Food Plus Crabgrass & Insect Control |
| 2947* | 11-15-20 Plantabbs |
| 3016 | 12- 2- 4 Gold Seal Lawn Food with Crabgrass Preventer |
| 2839 | 12- 4- 8 Agrico Country Club Fertilizer |
| 2378 | 12- 4- 8 HH "C" Fertilizer |
| 2672 | 12- 5- 7 Emerald Green Lawn Food |
| 2289 | 12- 5- 7 Golden Vigoro Lawn Food |
| 3066 | 12- 5- 7 Golden Vigoro Lawn Food with End-O-Pest |
| 2929 | 12- 5- 7 Vigoro Lawn Weeder & Feeder |
| 2399 | 12-16- 8 Greenfield Triple Action Evergreen & Azalea Food |
| 2160 | 14- 3- 3 Scott's Halts Plus |
| 2624 | 15- 7- 5 Grand Lawn Lightweight Fertilizer |
| 2952/ | 15- 7- 5 Grand Union Lightweight Lawn Fertilizer |
| 2348* | 15-10- 5 Magic-Gro African Violet Food |
| 2738 | 16- 4-12 Peter's Easter Lily Special |
| 2872/ | 17- 4- 4 Adam's Nursery Mart Weed & Feed Granules |
| 3088 | 17- 4- 4 Asgrow Weed-Nix Lawn Food with 2, 4-D |
| 3087 | 17- 4- 4 Breck's Feed-No-Weed with 2, 4-D |
| 2787/ | 17- 4- 4 Holdridge Farm Nursery Weed & Feed Granules |
| 3057 | 18- 3- 5 Corenco Weed-B-Done Plus 2, 4-D |
| 2775 | 18- 9- 4 Farmingdale Lawn Food with Insecticide |
| 2736 | 20- 5-30 Peters |
| 2832 | 20- 6- 4 Godfrey's Professional Lightweight Turf Food |
| 2784 | 20- 6- 4 Our Own Holdridge Turf Food |
| 2176 | 22- 8- 4 Asgrow Gro-Sod Lawn Food |
| 3075 | 22- 8- 4 Breck's Turf-Gro Lawn Food |
| 2384 | 23- 7- 7 Scott Turf Builder |
| 2252* | 23-19-17 Ra-Pid-Gro |
| 2976 | 24-10- 5 Thrive Lawn Food |
| 2735 | 25- 5-20 Peter's Carnation Special |
| 2201 | 25-10- 5 Superfine Lawn Food |
| 2171 | 25-12-10 Fer-Mel Premium Lawn Food |
| 2855 | 25-12-12 Mag-Gro Fairway Fertilizer |
| 2851 | 26-12-12 Fer-Mel 50 Supreme Food |

* Small package sample.

/ Unregistered.

TABLE 5.

ANALYSES OF MIXED FERTILIZERS

| Mfr.
No. | Per cent
organic
nitrogen | | Per cent
total
nitrogen | Per cent
available
phosphoric
acid | Per cent
water-
soluble
potash | Per cent
magnesium |
|-------------|---------------------------------|--------|-------------------------------|---|---|-----------------------|
| | Sol. | Insol. | | | | |
| 129 | 6.42 | 4.44 | 11.88 | 4.56 | 6.79 | ---- |
| 107 | 0.16 | 0.00 | 12.64 | 19.45 | 30.40 | ---- |
| 8 | 7.82 | 1.58 | <u>11.58</u> | 2.20 | 4.70 | ---- |
| 6 | 4.32 | 1.84 | <u>12.24</u> | 4.50 | 8.58 | ---- |
| 80 | 6.80 | 4.78 | 12.94 | 4.87 | 8.66 | ---- |
| 55 | 1.20 | 0.48 | <u>10.72</u> | 6.56 | 7.22 | ---- |
| 129 | 6.30 | 5.10 | <u>12.24</u> | 4.97 | 7.00 | ---- |
| 129 | 7.44 | 4.00 | 12.80 | 5.08 | 7.02 | ---- |
| 129 | 5.28 | 5.84 | 12.40 | 4.97 | <u>6.36</u> | ---- |
| 45 | 0.74 | 0.20 | 12.64 | 16.08 | <u>6.26</u> | ---- |
| 115 | 9.72 | 4.68 | 14.56 | 3.77 | <u>3.10</u> | ---- |
| 39 | 1.12 | 2.24 | 15.12 | 6.90 | 5.34 | ---- |
| 67 | 1.04 | 1.20 | <u>14.32</u> | 7.54 | 5.15 | ---- |
| 131 | 9.84 | 0.00 | <u>14.32</u> | <u>5.81</u> | 5.12 | ---- |
| 106 | 4.95 | 0.00 | 17.67 | 6.21 | 14.98 | ---- |
| 21 | 13.44 | 0.00 | <u>16.00</u> | 4.06 | 4.64 | ---- |
| 13 | 9.28 | 2.32 | 17.44 | 6.23 | 4.57 | ---- |
| 13 | 10.16 | 1.90 | 17.84 | 5.17 | <u>3.45</u> | ---- |
| 21 | 18.24 | 0.00 | 20.80 | 4.42 | <u>5.80</u> | ---- |
| 36 | 12.76 | 1.64 | <u>17.20</u> | <u>2.44</u> | 5.05 | ---- |
| 53 | 8.64 | 2.60 | <u>16.80</u> | <u>8.72</u> | 4.50 | ---- |
| 106 | 9.28 | 0.00 | 20.32 | 5.02 | 31.05 | ---- |
| 62 | 3.68 | 11.12 | 22.48 | 6.14 | 4.92 | ---- |
| 79 | 6.08 | 7.28 | <u>19.12</u> | 6.83 | 4.56 | ---- |
| 13 | 12.32 | 2.84 | <u>21.12</u> | <u>6.95</u> | <u>3.18</u> | ---- |
| 13 | 12.00 | 2.72 | 22.08 | 8.28 | 4.33 | ---- |
| 115 | 14.24 | 8.16 | 24.48 | <u>6.77</u> | <u>6.52</u> | ---- |
| 111 | 14.56 | 0.00 | 23.84 | 19.74 | 17.28 | ---- |
| 83 | 16.20 | 4.28 | 24.64 | 9.81 | 5.04 | ---- |
| 106 | 17.78 | 0.00 | 26.08 | 5.56 | 20.73 | ---- |
| 116 | 11.04 | 9.20 | 25.04 | 11.12 | 5.18 | ---- |
| 91 | 20.56 | 0.00 | 25.04 | <u>11.17</u> | 10.86 | ---- |
| 90 | 20.64 | 0.00 | 25.12 | <u>11.66</u> | 12.36 | ---- |
| 91 | 13.92 | 7.12 | <u>25.68</u> | 12.87 | 12.80 | ---- |

~~~~~ Indicates deficiencies.



TABLE 6.

## ANALYSES OF SHEEP MANURE, ETC.

| Station<br>No.    | Manufacturer, brand and dealer                                                                                                                |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| 2443              | Armour Cattle Manure. Armour Agricultural Chemical Co., Atlanta, Ga. Sampled at Caldor of Greenwich, Inc., Greenwich.                         |
| 2930              | Armour Sheep Manure. Armour Agricultural Chemical Co., Atlanta, Ga. Sampled at Vality, Gales Ferry.                                           |
| 2677              | Barnyard Gem Dehydrated Cow Manure. Farmer's Organic, Linwood, N. C. Sampled at J. M. Fields Co., East Hartford.                              |
| 3009              | Corenco Sheep Manure & Inert Matter. Consolidated Rendering Co., Boston, Mass. Sampled at Libner Grain Co., Inc., Norwalk.                    |
| 2233              | Cross Country Organic Cattle Manure Compost. Sears, Roebuck & Co., Chicago, Ill. Sampled at Sears, Roebuck & Co., Hamden.                     |
| 3074              | Farmyard Gold Composted Cow Manure. Stokle, Inc., Kennett Square, Pa. Sampled at King Cole of Bridgeport, Inc., Bridgeport.                   |
| 2473 <sup>3</sup> | Fertal-Gro Cow Manure - Tobacco Stem Bedding. Eastern Dehydrating Co., Lexington, N. C. Sampled at Vittner's Garden Center, Inc., Manchester. |
| 2966 <sup>4</sup> | Fertal-Gro Sheep Manure - Tobacco Stem Bedding. Eastern Dehydrating Co., Lexington, N. C. Sampled at Cadwell & Jones, Inc., Hartford.         |
| 2678*             | Fertie Composted Cow Manure. Organic Compost Corp., Oxford, Pa. Sampled at J. M. Fields Co., East Hartford.                                   |
| 2783              | Fertie Composted Cow Manure. Organic Compost Corp., Oxford, Pa. Sampled at Orbits Dept. Store, Groton Shopping Center, Groton.                |
| 2902              | Gardener's Composted Cow Manure. Organic Compost Corp., Oxford, Pa. Sampled at A & P Warehouse, East Hartford.                                |

\* Small package sample.

~~~~~ Indicates deficiencies.

¹ Guaranteed, 1.00%.

TABLE 6.
ANALYSES OF SHEEP MANURE, ETC.

| Total Nitrogen
per cent | | Phosphoric acid
per cent | | | Total Potash
per cent | | Sand
per cent |
|----------------------------|------|-----------------------------|-------------------|--------------------|--------------------------|------|------------------|
| F | G | Citrate
insoluble | Total
found | Available
found | F | G | |
| 2.08 | 2.00 | ---- | 1.88 ¹ | ---- | 2.69 | 2.00 | 7.78 |
| 2.36 | 1.25 | 1.04 | 2.76 | 1.72 ¹ | 3.77 | 2.00 | 10.11 |
| 1.88 | 1.00 | 0.11 | 0.98 | 0.87 ¹ | 10.77 | 1.00 | 6.38 |
| 1.88 | 1.25 | 0.27 | 1.61 | 1.34 ¹ | 2.71 | 2.00 | 22.94 |
| 1.32 | 0.50 | 0.22 | 1.96 | 1.74 ² | 1.62 | 0.50 | 50.86 |
| 1.04 | 0.50 | 0.28 | 0.88 | 0.60 ² | 1.28 | 0.50 | 43.94 |
| <u>1.62</u> | 2.00 | 0.07 | 0.98 | 0.91 ¹ | 8.88 | 7.00 | 1.69 |
| 2.00 | 2.00 | 0.26 | 2.02 | 1.76 ¹ | 8.86 | 5.00 | 7.78 |
| 1.24 | 1.00 | 0.14 | 1.51 | 1.37 ¹ | 1.67 | 1.00 | 39.08 |
| 1.28 | 1.00 | 0.20 | 1.36 | 1.16 ¹ | 1.33 | 1.00 | 52.39 |
| 1.36 | 0.50 | 0.28 | 1.19 | 0.91 ² | 3.32 | 0.50 | 51.37 |

² Guaranteed, 0.50%.

³ Chlorine: Found, 2.05%.

⁴ Chlorine: Found, 1.64%.

TABLE 6.
ANALYSES OF SHEEP MANURE, ETC.

| Station
No. | Manufacturer, brand and dealer |
|-------------------|---|
| 2420 | Gardener's Composted Sheep Manure. Organic Compost Corp., Oxford, Pa. Sampled at A & P Food Stores, Westport. |
| 2383 ⁵ | Green Acres Dehydrated Cow Manure - Tobacco Stem Bedding. Eastern Dehydrating Co., Lexington, N. C. Sampled at G. E. Madison Stores, Southington. |
| 2261 | Hoffman Dehydrated Cow Manure. A. H. Hoffman, Inc., Landisville, Pa. Sampled at Barker's, Meriden. |
| 2923 | HH Composted Cow Manure. Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Hubbard-Hall Chemical Co., Portland. |
| 2909 | HH Composted Sheep Manure. Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Hubbard-Hall Chemical Co., Portland. |
| 2380 | HH Cow Manure. Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Louis Perillo Coal Co., Inc., Southington. |
| 3068 | Mistress Mary Dehydrated Cow Manure. A. H. Hoffman, Inc., Landisville, Pa. Sampled at G. E. M. Inc., Newington. |
| 2728 | O'C Dehydrated Cow Manure. Farmer's Organic Corp., Ransomville, N. Y. Sampled at Frank Policastro & Sons, Inc., Glenbrook. |
| 2196/ | Orga-Vite Dehydrated Hen Manure. Organic Growth Products Co., Farmingdale, N. J. Sampled at King Cole of Bridgeport, Inc., Bridgeport. |
| 2232 | Sears Composted Cow Manure. Sears, Roebuck & Co., Chicago, Ill. Sampled at Sears, Roebuck & Co., Hamden. |

/ Unregistered.

¹ Guaranteed, 1.00%.

² Guaranteed, 0.50%.

TABLE 6.

ANALYSES OF SHEEP MANURE, ETC.

| Total Nitrogen
per cent | | Phosphoric acid
per cent | | | Total Potash
per cent | | Sand
per cent |
|----------------------------|------|-----------------------------|----------------|--------------------|--------------------------|------|------------------|
| F | G | Citrate
insoluble | Total
found | Available
found | F | G | |
| 1.32 | 0.50 | 0.20 | 1.83 | 1.63 ² | 1.42 | 0.50 | 43.41 |
| 1.72 | 2.00 | 0.14 | 1.38 | 1.24 ¹ | 10.35 | 7.00 | ----- |
| 2.08 | 2.00 | 0.17 | 1.38 | 1.21 ¹ | 2.40 | 1.00 | 1.29 |
| 1.32 | 1.00 | 0.37 | 1.38 | 1.01 ¹ | 1.38 | 1.00 | 54.50 |
| 1.24 | 1.00 | 0.16 | 1.28 | 1.12 ¹ | 1.44 | 1.00 | 49.44 |
| 1.56 | 1.50 | 0.24 | 1.52 | 1.28 ¹ | 2.31 | 1.00 | 26.87 |
| 2.46 | 2.00 | 0.21 | 1.59 | 1.38 ¹ | 2.78 | 1.00 | 2.43 |
| 2.28 | 2.00 | 0.76 | 1.86 | 1.10 ¹ | 3.08 | 2.00 | 9.66 |
| <u>2.72</u> | 3.00 | 0.37 | 5.20 | 4.83 ⁶ | 1.71 | 1.00 | 9.98 |
| 1.48 | 0.50 | 0.20 | 1.92 | 1.72 ² | 2.02 | 0.50 | 45.43 |

~~~~~ Indicates deficiencies.

<sup>5</sup> Chlorine: Found, 1.98%.<sup>6</sup> Guaranteed, 3.00%.

TABLE 7.

PHOSPHORIC ACID DISTRIBUTION  
IN POTATO GRADE FERTILIZERS

| Station<br>No. | Manufacturer or distributor and brand                                                          |
|----------------|------------------------------------------------------------------------------------------------|
| 5-10-10        |                                                                                                |
|                |                                                                                                |
|                |                                                                                                |
|                |                                                                                                |
| 2710           | American Agricultural Chemical Co., North Weymouth, Mass. <u>AA Quality</u>                    |
| 2227           | Same. <u>AA Quality with 1.2 Magnesium</u>                                                     |
| 2605           | Same. <u>AA Quality with 1.2 Magnesium</u>                                                     |
| 2370           | Same. <u>Agrico for Potatoes</u>                                                               |
| 3094           | Armour Agricultural Chemical Co., Atlanta, Ga. <u>Armour Vertagreen for Acid Loving Plants</u> |
| 3076           | Breck's Div., Asgrow Seed Co., Boston, Mass. <u>Breck's Garden Gro with 1.2 Magnesium</u>      |
| 2969           | Cadwell & Jones, Inc., Hartford, Conn. <u>C &amp; J Homogeneous Granulated</u>                 |
| 2192           | Consolidated Rendering Co., Boston, Mass. <u>Corenco</u>                                       |
| 2256           | Same. <u>Corenco</u>                                                                           |
| 2613           | Same. <u>Corenco with 1.2 Magnesium</u>                                                        |
| 2772           | Davison Chemical Div., W. R. Grace & Co., Baltimore, Md. <u>Davco 3-G Granulated</u>           |
| 2655           | Eastern States Farmers' Exchange, Inc. W. Springfield, Mass. <u>Eastern States</u>             |
| 2658           | Same. <u>Eastern States for Vegetables, Flower Gardens and Lawn Est.</u>                       |
| 2284           | Hubbard-Hall Chemical Co., Waterbury, Conn. <u>Liberty with 1.2 Magnesium</u>                  |
| 2995           | Old Fox Agricultural Sales, Inc. E. Providence, R.I. <u>Old Fox with 1.2 Magnesium</u>         |
| 2292           | Swift & Co., AgriChem Div., Houston, Texas. <u>Vigoro Azalea &amp; Camellia Food</u>           |
| 2444           | Swift & Co., AgriChem Div., New Haven, Conn. <u>Vigoro Evergreen Food</u>                      |



TABLE 7.

PHOSPHORIC ACID DISTRIBUTION  
IN POTATO GRADE FERTILIZERS

| Phosphoric Acid Found, Per Cent |                                        |           |       | Percentage<br>of available<br>phosphoric<br>acid soluble<br>in water |
|---------------------------------|----------------------------------------|-----------|-------|----------------------------------------------------------------------|
| Water-soluble                   | Citrate-soluble<br>(not water-soluble) | Insoluble | Total |                                                                      |
| 3.48                            | 5.92                                   | 0.41      | 9.81  | 37.0                                                                 |
| 3.94                            | 5.82                                   | 0.30      | 10.06 | 40.4                                                                 |
| 3.31                            | 4.26                                   | 0.35      | 7.92  | 43.7                                                                 |
| 4.00                            | 6.31                                   | 0.71      | 11.02 | 38.8                                                                 |
| 4.35                            | 6.07                                   | 0.63      | 11.05 | 41.7                                                                 |
| 4.53                            | 5.13                                   | 0.11      | 9.77  | 46.9                                                                 |
| 4.64                            | 4.09                                   | 0.29      | 9.02  | 53.2                                                                 |
| 5.52                            | 4.87                                   | 0.16      | 10.55 | 53.1                                                                 |
| 6.00                            | 4.47                                   | 0.19      | 10.66 | 57.3                                                                 |
| 4.97                            | 5.11                                   | 0.25      | 10.33 | 49.3                                                                 |
| 4.47                            | 5.45                                   | 0.20      | 10.12 | 45.1                                                                 |
| 2.21                            | 7.80                                   | 0.25      | 10.26 | 22.1                                                                 |
| 2.56                            | 7.57                                   | 0.25      | 10.38 | 25.3                                                                 |
| 3.05                            | 7.21                                   | 0.10      | 10.36 | 29.7                                                                 |
| 4.55                            | 5.15                                   | 0.12      | 9.82  | 46.9                                                                 |
| 6.40                            | 8.50                                   | 0.15      | 15.05 | 43.0                                                                 |
| 6.40                            | 3.17                                   | 0.42      | 9.99  | 66.9                                                                 |

TABLE 7.

PHOSPHORIC ACID DISTRIBUTION  
IN POTATO GRADE FERTILIZERS

| Station<br>No. | Manufacturer or distributor and brand                          |                                                              |
|----------------|----------------------------------------------------------------|--------------------------------------------------------------|
| 3062           | Same.                                                          | <u>Vitogro Azalea &amp; Camellia Food</u>                    |
| 3010           | Same.                                                          | <u>Vitogro Evergreen Food</u>                                |
|                |                                                                | 6-8-8                                                        |
| 2612           | Consolidated Rendering Co., Boston, Mass.                      | <u>Corenco</u><br><u>with 1.2 Magnesium</u>                  |
|                |                                                                | 8-12-12                                                      |
| 2611           | Consolidated Rendering Co., Boston, Mass.                      | <u>Corenco</u><br><u>with 0.9 Magnesium</u>                  |
|                |                                                                | 10-10-10                                                     |
| 2369           | American Agricultural Chemical Co., North Weymouth,<br>Mass.   | <u>AA Quality</u>                                            |
| 2714           | Same.                                                          | <u>AA Quality (10 lb. Borax per Ton)</u>                     |
| 2789           | Consolidated Rendering Co., Boston, Mass.                      | <u>Corenco</u><br><u>Granular Form</u>                       |
| 2770           | Davison Chemical Div., W. R. Grace & Co., Baltimore,<br>Md.    | <u>Davco 3-G Granulated</u>                                  |
| 2439           | Eastern States Farmers' Exchange, Inc. W. Springfield<br>Mass. | <u>Eastern States</u>                                        |
| 2366           | Hubbard-Hall Chemical Co., Waterbury, Conn.                    | <u>Liberty</u>                                               |
| 2377           | Same.                                                          | <u>Liberty</u>                                               |
| 2463           | Same.                                                          | <u>Liberty</u>                                               |
| 2845           | Same.                                                          | <u>Liberty</u>                                               |
| 2483           | Same.                                                          | <u>State of Connecticut, 50% of Nitrogen in Organic Form</u> |
| 2629           | Same.                                                          | <u>State of Connecticut (10 lb. Borax per Ton)</u>           |
| 2356           | Old Fox Agricultural Sales, Inc., E. Providence, R.I.          | <u>Old Fox</u>                                               |
|                |                                                                | 10-15-15                                                     |
| 2608           | Consolidated Rendering Co., Boston, Mass.                      | <u>Corenco</u><br><u>Granular Form</u>                       |

TABLE 7.  
PHOSPHORIC ACID DISTRIBUTION  
IN POTATO GRADE FERTILIZERS

| Phosphoric Acid Found, Per Cent |                                        |           |       | Percentage<br>of available<br>phosphoric<br>acid soluble<br>in water |
|---------------------------------|----------------------------------------|-----------|-------|----------------------------------------------------------------------|
| Water-<br>soluble               | Citrate-soluble<br>(not water-soluble) | Insoluble | Total |                                                                      |
| 6.55                            | 3.63                                   | 0.26      | 10.44 | 64.3                                                                 |
| 6.30                            | 3.59                                   | 0.46      | 10.35 | 63.7                                                                 |
| 4.30                            | 4.56                                   | 0.15      | 9.01  | 48.5                                                                 |
| 7.30                            | 5.61                                   | 0.15      | 13.06 | 56.5                                                                 |
| 4.60                            | 5.30                                   | 0.57      | 10.47 | 46.5                                                                 |
| 3.65                            | 6.44                                   | 0.56      | 10.65 | 36.2                                                                 |
| 6.45                            | 4.26                                   | 0.16      | 10.87 | 60.2                                                                 |
| 4.40                            | 5.17                                   | 0.11      | 9.68  | 46.0                                                                 |
| 3.40                            | 6.98                                   | 0.34      | 10.72 | 32.8                                                                 |
| 5.90                            | 3.96                                   | 0.37      | 10.23 | 59.8                                                                 |
| 5.10                            | 4.76                                   | 0.34      | 10.21 | 51.7                                                                 |
| 4.95                            | 5.18                                   | 0.44      | 10.57 | 48.9                                                                 |
| 4.85                            | 10.61                                  | 0.21      | 15.67 | 31.4                                                                 |
| 5.40                            | 3.94                                   | 0.43      | 9.77  | 57.9                                                                 |
| 6.75                            | 3.41                                   | 0.31      | 10.37 | 67.1                                                                 |
| 5.40                            | 4.23                                   | 0.07      | 9.70  | 56.1                                                                 |
| 13.30                           | 3.62                                   | 0.21      | 17.13 | 78.6                                                                 |

TABLE 8  
ANALYSES OF OTHER MISCELLANEOUS MATERIALS<sup>1</sup>

| Station No.       | Material                              | Total nitrogen | Total phosphoric acid | Water-soluble potash | Calcium oxide | Water | Ash   | Organic matter |
|-------------------|---------------------------------------|----------------|-----------------------|----------------------|---------------|-------|-------|----------------|
| 3172              | Beet potash                           | ----           | ----                  | 38.44                | ----          | ----  | ----  | ----           |
| 1980              | Chopped tobacco stalks                | 3.24           | 0.75                  | 5.28                 | 0.81          | ----  | ----  | ----           |
| 4151              | Land plaster                          | ----           | ----                  | ----                 | 31.87         | ----  | ----  | ----           |
| 3483              | Mink manure                           | 1.00           | 2.88                  | 0.63                 | ----          | 65.15 | ----  | ----           |
| 4072 <sup>2</sup> | Primary digested sewage sludge solids | 1.56           | 1.20                  | 0.22                 | 2.38          | 14.85 | 50.21 | 34.94          |
| 2964              | Sea-Gro Brand Dried Sea Kelp          | ----           | ----                  | 14.73 <sup>3</sup>   | ----          | ----  | ----  | ----           |
| 3291              | Wool waste solution                   | 0.73           | 0.00                  | 1.98                 | ----          | ----  | ----  | ----           |

<sup>1</sup>Figures are in per cent.

<sup>2</sup>Magnesium, 0.18%; manganese, 0.02%; iron, 1.09%; aluminum, 0.46%; zinc, 0.28%; copper, 0.09%; boron, 0.03%; molybdenum, nickel, titanium, lithium and cobalt present.

<sup>3</sup>Guaranteed, 12.00%.





